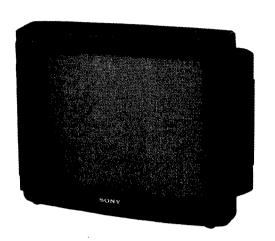
# KV-A2121D/A2521D/A2921D **RM-816**

# **SERVICE MANUAL**



# AEP Model KV-A 2121 D Chassis No. SCC-F 07 A-A KV-A2521 D Chassis No. SCC-F 07 C-A KV-A 2921 D Chassis No. SCC-F 07 B-A

AE-1C CHASSIS

MODELS OF TH	E SAME SERIES
KV-A2121D/A2521D/A2921D	
KV-A2111D/A2511D	
KV-C2551D/C2951D	

## **SPECIFICATIONS**

### [KV-A2121 D/A2521 D/A2921 D]

Television system

Color system

Stereo system

**GERMAN** stereo

Channel coverage

Picture tube

Inputs

B/G/H

B/G/H

VHF: E2-E12 UHF: E21-E69

CABLE TV (1) : \$1-\$41

CABLE TV (2): S01-S05, M1-M10, U1-U10

Hi-Black Trinitron tube

PAL, SECAM, NTSC3.58, NTSC4.43

Approx. 54.5 cm (21 inches)

(Approx. 51 cm picture measured diagonally)

 $100~^{\circ}$  -degree deflection

Approx. 63.5 cm (25 inches)

(Approx. 59 cm picture measured diagonally)

110 ° -degree deflection Approx. 72.4 cm (29 inches)

(Approx. 68 cm picture measured diagonally)

110 ° -degree deflection

Ö-1 21-pin connector:

CENELEC standard including RGB input.

→ 2 21-pin connector: including S video input

Flont: 3 Audio and video input jacks:

phono jack.

Including S Video input Y:  $1V_{p-p} \pm 3dB 75ohm$ C:  $0.3V_{p-p} \pm 3dB 75ohm$  Outputs

21-pin connector: CENELEC standard Headphones jack: stereo minijack

External speaker terminals: 2-pin DIN Audio output jacks: phono jack

(output dependent upon TV settings)

30 W + 30 W Sound output

92 Wh (KV-A2121 D) Power consumption

106 Wh (KV-A2521 D) 114 Wh (KV-A2921 D)

Dimensions incl.speakers Approx. 615 × 439 × 448 mm (w/h/d)

(KV-A2121 D)

Approx.  $677 \times 501 \times 481 \text{ mm (w/h/d)}$ 

(KV-A2521 D)

Approx.  $761 \times 568 \times 512 \text{ mm (w/h/d)}$ 

(KV-A2921 D)

Weight incl.speakers

Approx. 28kg (KV-A2121 D) Approx. 40kg (KV-A2521 D)

Approx. 55kg (KV-A2921 D)

-Continued on next page-





# KV-A2121D/A2521D/A2921D

[RM-816]

Remote control system

infrared control

Power requirements

3 V dc

2 batteries IEC designation

R 6 (size AA)

Dimentions

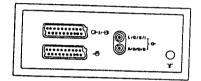
Approx.75 $\times$ 221 $\times$ 23 mm (w/h/d)

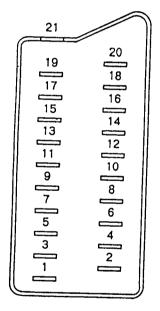
Weight

Approx.230 g (including Batteries)

Design and specifications are subject to change without notice.

21 pin connector (→Ö, →2/→⑤)





Pin I	ło.	1	2	Signat	Signal level
1		0	c	Audio output B (righ	ott) Standard level; 0.5Vrms Output impedance: Less than 1kohm*
2		0	c	Audio Input B (right)	Standard level: 0.5Vrms Input impedance: More than 10kohms*
3		0	0	Audio output A (left)	Standard level: 0.5Vrms Output Impedance: Less than 1kohm*
4	$\perp$	0	0	Ground (audio)	
5		0	0	Ground (blue)	
6		0	0	Audio Input A (left)	Standard level: 0.5Vrms Input Impedance: More than 10kohms*
7		Э	•	Blue Input	0.7V ± 3dB, 75ohms, positive
8		0	0	Function select (AV control)	High state (9.5 - 12V): Part mode Low state (0 - 2V): TV mode Input Impedance: More than 10kohms Input capacitance: Less than 2 nF
9		2	0	Ground (green)	
10		$\geq 1$	0	Open	
11	C		•	Green	Green signal: 0.7V ± 3dB, 750hms, positive
12	10		0	Open	
13	C		0	Ground (red)	
14	0		0	Ground (branking)	
15	_0		_	Red Input	0.7V ± 3dB, 75ohms, positive
—	<u> </u>	$\perp$	0	(S signal) croma input	
16	0		•	Blanking Input (Ys signal)	High state (1 - 3V) Low state (0 - 0,4V) Input Impedance: 75ohms
17	0	$\perp$	0	Ground (video output)	
18	0		0	Ground (video input)	
19	0		0	Video output	1V ± 3dB, 75ohms, positive Sync: 0.3V ( - 3, +10dB)
20	0		-	Video Input	1V ± 3dB, 75ohms, positive Sync: 0.3V ( - 3, +10dB)
	<u>-</u> -	_			1V ± 3dB, 75chms, positive Sync: 0.3V ( - 3, +10dB)
21	0	(	) I	Common ground (plug, s	shleid)

4 Pin Connector (⊕)

	( - /	
Pin No	Signal	Signal level
1	Ground	Olghar level
2	Ground	
3	Y (S signal) input	1V ± 3dB 75ohm, positive Sync 0.3V <sup>3</sup> <sub>+10</sub> dB
4	C (S signal) input	0.3V ± 3dB 75ohm, positive

\* at 20Hz - 20kHz

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## (CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAPTO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

### **WARNING!!**

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

## **SAFETY-RELATED COMPONENT WARNING!!**

COMPONENTS IDENTIFIED BY SHADING AND MARK  $\Delta$  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

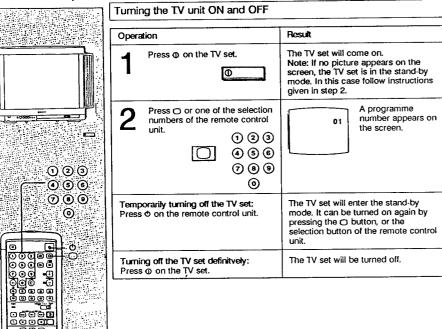
# SECTION 1 GENERAL

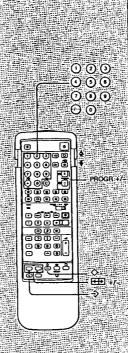
## 1-1. TV CHANNEL PRESETTING

After installing the TV set, TV channels must be preset.

TV broadcasting stations broadcast their programmes on certain fixed frequencies (channels). In order to receive these programmes it is necessary to search for the relevant broadcasting station and to set record it as a channel. The "programme number" is the number that the user decides to associate with a certain channel.

For channel settings there are 60 positions available in the memory. In this way all stations broadcasting within the user's country can be received and recorded as a channel.





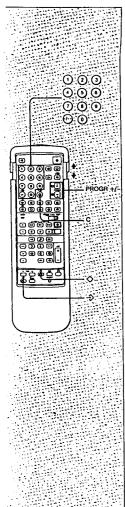
### TV channels automatic presetting

If the numbers to be associated with certain TV channels are already known, the following explanation can be skipped. In this case go directly to the section "TV channels direct selection".

Opera	tion	Result
1	Press ⇒ to begin the preselection.	The programme number flashes.
2	Press PROGR + /- buttons of the remote control unit to select the channel number of the broadcasting station you want to memorize.    1	The programme number on the screen changes. NOTE: In case of a mistake, the "X" letter appears. Repeat once more the operation of step 2.
3	To search for broadcasting stations press == + and - buttons.	When a broadcasting station is tuned correctly, the search will stop. If you want to skip it, press 1991. + or again.
4	Press \$\displays to memorize the channel to that the broadcasting station is tuned.	03 All data visualized under the channel number disappears from the screen.
5	To memorize other broadcasting stations repeat steps from 1 to 4.	

14.

0000 0000 0000 0000

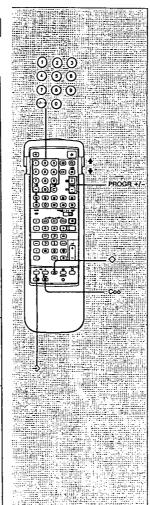


### Direct TV channel setting

Direct presetting of TV channels is faster than automatic presetting. With this function any broadcasting station can be searched for and set as the desired channel.

Oper	ation	Result	
1	Press → to begin the presetting.	03 (91)	The programme number begins to flash on the screen.
2	Press the PROGR + /- buttons of the remote control unit to select the channel number under which you want to set the broadcasting station.     1	01 car sec	The programme number on the screen changes. Note In case of mistake, the "%" letter appears on the screen. Repeat once more the operation of step 2.
3	Press C. If you wish to select a cable station press C twice.		Indication "C" ("S" for cable stations) flashes on the screen
4	By using the number buttons of the remote control unit select the channel number, always with two figures (for "4" press "04"). ① ② ③ ② ⑤ ⑥ ⑦ ⑧ ⑨  Note: Press the second figures within 5 seconds from the first. After 5 seconds the operation is canceled.	01 Cod B/O	The channel number changes on the screen.
5	Press to memorize the channel to which the station is tuned.	01	All indications, except the programme number, disappear from the screen.

To memorize other broadcasting stations repeat the above procedure.



### Exclusion of programmes

Once all desired stations have been memorized, unoccupied channel numbers, with stations of inferior quality signals can be excluded. The undesired channels can be excluded by using the PROGR + and – buttons.

Opera	tion		Result	
1	Press ⇒ to begin presetting.  →		- 08 / cas \ Brid	The programme number begins to flash on the screen.
2		r on the the remote ct the	03 CM MG	The programme number changes.
3	Press Coo.	C	03 03 00 00 80	Under the programme number, the preceding channel number appears.
4	Press ♦ .	Ĉ	03	All indications under the programme number disappear from the screen. The excluded programme number will be memorized.

### NoteNote

Undesired channels can be excluded only by using PROGR  $\pm$  and  $\pm$  keys. Excluded programme numbers appear on the screen if you press the number keys of the remote control unit.

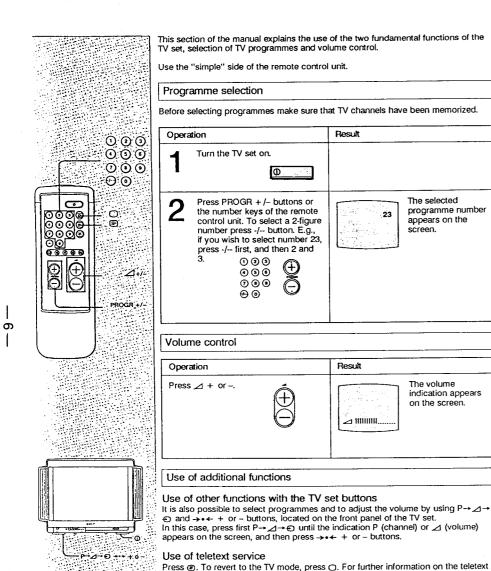
### Use of additional tuning functions

### Temporary channel tuning

It is possibile to temporarily memorize a channel, even if it has not been preset.

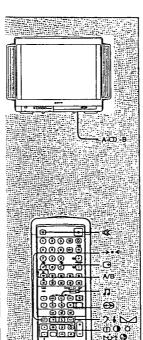
Opera	ation	Result
1	Press C. Press C twice for a cable station.	"C" ("S" for cable stations) indication appears on the screen.
2	Using the number keys of the remote control unit select the channel number, always with two figures (e.g., "04" for channel "4").	The channel will be received, but it will not be set as a programme number.

### 1-2. BASIC FUNCTIONS



service,

## 1-3. SPECIAL FUNCTIONS



This section explains the use of functions for adjusting pictures and sound; for inserting on the screen the name of a channel; and for fine tuning of a channel.

Use the "complete" side of the remote control unit.

#### Use of special functions

The following functions can be used.

Function	Operation	Reset
Indication display	Press 🔾	Press ⊕ again.
Sound muting	Press ≰	Press ⊀ again.
Language selection for bilingual programmes.	Press A/B. The selected language is displayed by the relevant indication on the screen.	Press A/B.
Sound adjustment for music programmes.	Press J	Press <b>JJ</b> again.
Use of special sound effects.	Press ↔	Press ⊕ again.
Time display (only during teletext broadcasting).	Press @	Press again.

### Picture and sound adjustment

Although picture and sound adjustment has already been performed in the factory, it is still possible to make them more suitable to one's own taste. The following table shows all available functions and their effects.

### Operation

Function	Controls to be used	Result
Button selection	<b>⊕©</b> □	The symbol appears on the screen.
Adjustment of the selected function	<b>⊡</b> ⊟	The level has been adjusted.

#### Picture adjustment

Adjustment	Symbol	Result (+ ++ -)
Colour	•	Further or lesser colour intensity
Contrast	•	Further or lesser contrast
Brightness	ø	Bright (++) dark
Hue (for NTSC only)	tús	More red ↔ more green
Picture definition	Φ	More definition ++ less definition

### Sound adjustment

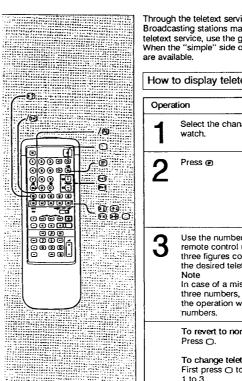
Adjustment	Symbol	Result (+ ++ -)
Bass	2	More of low frequencies ↔ less of low frequencies
Treble	4	More of high frequencies ↔ less of high frequencies
Speakers balance	M	Volume increase from right speaker ↔ Volume increase from left speaker

Reversion to the original adjustment Press →•←.

### 1-4. USE OF THE TELETEXT SERVICE

#### Broadcasting station identification By associating a name with a certain broadcasting station it is possible to avoid having to remember, each time, in which channel number that particular station has been memorized. Five different characters are available for station identification. Operation Result -000 By using PROGR The programme number + or -, or the to be set for **49 69 69** 08 number keys of 000identification appears on **@ ©** the screen. 709 the remote PROGR control unit, **⑦ ③ ⑨** $\Theta$ $\odot$ $\overline{\cdot}$ select the $\Theta$ $\odot$ programme number to be set for identification. 00000 The number flashes on Press -> ۵ PROGR +/ the screen. 01 00000 C--00000 000 The first indication line Press O ----**₹** +/-. 08 cs1 8/G flashes on the screen. O ⋺. Using the + Alphabet letters, S .... or - buttons select **EEE +** numbers or a blank 08 C31 B/G space ("-") appear on a letter of the alphabet, a the screen, in that order. number, or a blank space. Press O ٥ In this way the first 8. ... character has been set, 08 and the following CS1 B/G position now flashes on the screen. Repeat steps 4 and 5, and fill all five available spaces. O All indications under the Press . programme number 08 disappear from the screen. All indications remaining on the screen have been memorized. Manual fine tuning If the picture is not perfect, it is possible to fine tune it manually. Operation Result Press + or - repeatedly until the picture The indication →F ← appears on the screen. is at the optimum. Press -> to start preselection. The programme number starts flashing on the screen. PIESS V. Manual fine luning has been memorized.

Note: Manual fine tuning will be reset when the channel is selected again.



Through the teletext service a great deal of information can be received at any time. Broadcasting stations make this service available through TV broadcasts. To use the teletext service, use the green keys on the "complete" side of the remote control unit.

	to display teletext service	
Opera	ation	Result
1	Select the channel you want to watch.	The channel changes on the screen.
2	Press @ @	If there is no teletext signal, the indication "Page 100" appears on the screen.
3	Use the number keys of the remote control unit to insert the three figures corresponding to the desired teletext page.  Note In case of a mistake, press any three numbers, and then repeat the operation with the correct numbers.	The selected page number appears on the screen. After a few seconds, the selected page appears on the screen.
	To revert to normal TV programm Press ().	es:
	To change teletext channel: First press () to revert to the TV r 1 to 3.	mode, and then repeat procedure step

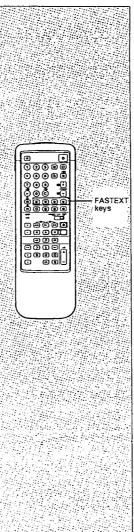
Note: A weak TV signal may cause troubles in the use of teletext.

### Use of special teletext functions

Required function	Operation	Result (on the screen)
Page index required.	Press @ (INDEX).	Page index appears.
Sub-pages required (page 888).	Press 🔿	The sub-page appears (page 888).
Access to previous or following pages.	Press @ (PAGE +) or @ (PAGE -).	The preceding or the following page appears.

Required function	Operation	Result (on the screen)	
Superimposition of the teletext on the TV programme.	In the TV mode, press set twice.  To revert to the normal teletext function press e again.	Teletext information will appear superimposed on the TV programme.	
To prevent page changes due to page up-dating.	Press @ (STILL). Press @ (TXT/MIX) to revert to the normal function.	The & (STILL) symbol appears on the screen.	
Magnification of teletext characters.	Press once to magnify the upper half of the screen. Press twice to magnify the lower half of the screen. Pressing the button three times the normal vision is restored.	The upper or the lower half of the page is magnified.	
Display of hidden information (answers to quizzes, ecc.).	Press @ (RIV).  Press again to hide the answers.	The information is displayed.	
Watching a programme while	1. Ask again for the page.	The number is displayed.	
the teletext searches for the required page.	2. Press 🙉	TV programme is displayed.	
	When the required page has been found, the page number will be displayed.	P201	
	4. Press  to display the page.	The desired page will be displayed.	
Display of a page at a preset time.	1. Request the page.	The selected page will be displayed.	
	2. Press @ (MEM.T).	In the lower part of the screen the indication "T****" appears.	
	3. Set the required time by using the number keys, and by inputting four figures (e.g. 0730 for "7:30").	The required time is displayed on the screen.	
	Press (CANC.). At the required tin the upper part of the screen. Press	To watch TV programmes until a preset time Press ⊚ (CANC.). At the required time, the selected page appears in the upper part of the screen. Press ⊚ to display the page.	
	To cancel the request Display the teletext page and then press (CANC.M.).		

Note: Depending on the teletext service, certain functions may not be available.



### Use of the FASTEXT function

The FASTEXT function allows rapid access, at the touch of a single button, to the teletext functions. In the lower part of the screen, a colour coded index will be displayed when a FASTEXT teletext page is broadcasted. Each colour corresponds to the coloured keys on the remote control unit.

#### Operation

Operation	Result
Press one of the coloured key on the remote control unit corresponding to the coloured indications of the FASTEXT teletext page.	The selected teletext page appears on the screen.

#### Note

The correct use of the FASTEXT teletext function depends on the signal being broadcast by the TV stations. Some TV stations may not broadcast FASTEXT teletext signal.

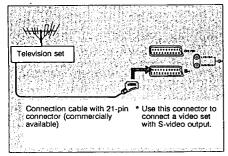
This TV set may be connected to other audio/video machines, such as videocameras, VTRs, videodisc players, or stereo systems.

### Connection to an external audio/video system

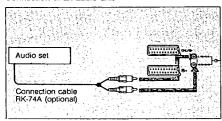
This TV set incorporates three groups of connectors, for input and output to the TV signal. Each group has the following characteristics.

Connector	Input signal	Output signal
ō-1	Normal audio/video signal or RGB signal	TV tuner audlo/video signal
G-2/G-	Normal audio/video signal and S-video signal	Audio/video signal from a selectable source
-G, ⊕, -∋ front panel	Normal audio/video signal and S-video signal	No signal

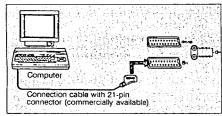
#### Connection of a TV set



#### Connection of an audio unit

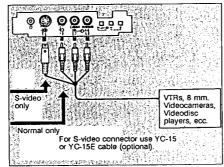


### Connection to a computer with RGB output



### Temporary connection of video apparatus

For a temporary connection (e.g. of a videocamera) use the front panel terminals.



# Connection of a video taperecorder through the nonnector

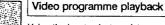
Connect the antenna input (AERIAL-IN) of the TV set to the antenna output (AERIAL-OUT) of the video taperecorder,

#### S-video input (Y/C input)

The video signal is formed by two separate signals: the luminance (Y) and the chrominance (C). Through the separation of the two signals it is possible to improve picture quality (luminance in particular), preventing reciprocal interferences. This TV set features two S-video sockets able to directly receive this type of signal.

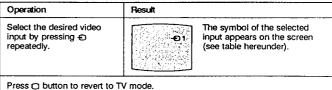
### Pictures with distortion

Move the TV set away from the video taperecorder if pictures or sound become distorted.



Using the input selector, pictures coming from a video taperecorder connected to the TV sets input, may be played back.

### Operation



#### Selectable inputs

Symbol	Selected input
<b>⊕</b> 1	Audio/video signal from ₱-1 connector.
Ð	RGB signal from 6-1 connector.
⊕2	Audio/video signal from G-2/G- connector.
-92	S-video signal (from a VTR with S-video output) from G-2/@- connector.
<b>⊕</b> 3	Audio/video signal from ⊕, ⊕connector located on the front panel.
-03	S-video singal from S-video - (4 pin) connector located on the front panel.
Input can be selecte	ed also with p→⊿→⊕ buttons of the TV set.
In this case, first sel- input.	ect €, and then press the +/- buttons to select the desired

### Selection of video output from a ⊕ 2/⊕ connector

The  $\bigcirc$  2/ $\bigcirc$ - connector may output 4 video signals. Select the outgoing video signal in the following way.

### Operation

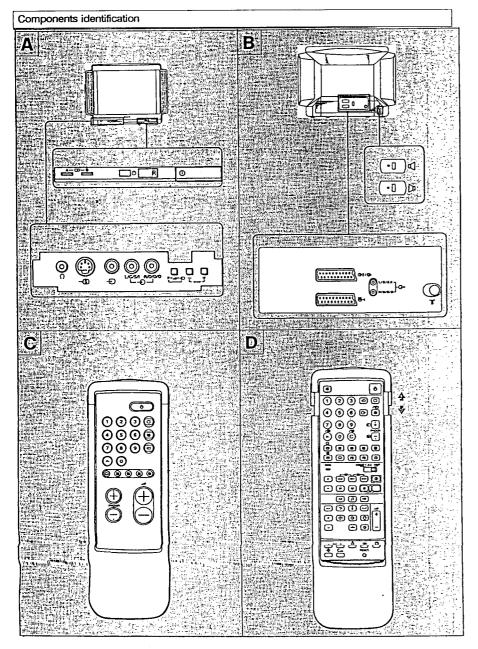
Operation	Result
Press ⊕ repeatedly to select the desired video input.	The selected video input symbol appears on the screen (see the table following).

#### Output signal

Symbol	Selected output
10-	Audio/video signal from Ō1 connector.
2 🕞	Audio/video signal from 🔾- 2/🔾- connector.
3 ᠿ	Audio/video signal from ⊕ and ⊕ connectors.
₩Đ	Audio/video signal from T-type antenna connector T.



## 1-6. GENERAL INFORMATION



This section briefly describes controls of the TV set and the remote control unit, and thier relevant functions.

A	TV set front pa	nol
_^_	I V Set Horit pa	ı iei
	Indication	Description
	Φ	Power switch
	ψ	Stand-by switch
	А-ОО-В	Bilingual function indications
	រា	Headphones connector (stereo mini-jack)
	<b>-</b> ⊕⊕-	Input connectors (S-video/video/audio)
	P→△→Đ	Function selector (programme/volume/input)
	- 0 + 	Function adjustment keys

В	TV set rear panel	
	Indication	Description
ЧA		Speaker connectors (upper: left speaker; lower: right speaker)
	O+2/®-	Connector 2, Euro AV (SCART, 21-pin). S-video in/video in/TV/video out signals.
	<b>6</b> -	Connector 1, Euro AV (SCART, 21-pin). RGB in/video in/TV/out signals.
	G•	Audio output connectors (RCA pin)
	٦٢	Antenna connector (of IEC standard)

С	C Remote contro unit — simplified side	
	Indication	Description
	<b>0</b>	Input selector
	<b>(2)</b>	Teletext service key
	0	TV set power switch and TV mode selector
	ტ	Standby key
1,2	2,3,4,5,6,7,8,9,0	Number keys
	-/	Channel selection key/ 2-figure programmes
	<b>∠</b> + /-·	Volume adjustment key
	PROGR + /-	Programme selection key

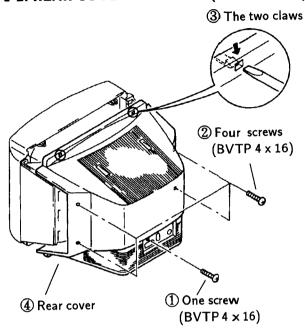
D	D Remote control unit — complete side	
Indication		Description
4\$		Sound muting key
Q		Standby key
1,2	,3,4,5,6,7,8,9,0	Number keys
	Ð	Input selector
	0	TV set power switch and TV mode selector
	Ð	Output selector
	€	Teletext key
	ມ	Music programme key
	A/B	Bilingual programmes language selection
	-/	Channel selection key/ 2-figure programmes
	С	Channel direct selection key
	↔	Special sound effect key
	@	Time display
	760 <b>6</b>	Teletext operation keys
	O	Display key
	<b>→+</b> ←	Reset key
	<b>∠</b> 1+/-	Volume adjustment keys
	PROGR + /-	Programme selection keys
	00¢0±±± ∠126+-	Image and audio adjustment keys
	МЕМ	MEM light indication
VID	EO 1/2/3, MDP	Video unit selector
	44 <b>&gt;&gt;</b> <b>11 0</b>	Video units function key
	C∞o	Programme cancelling key
	<b>-</b> >	Channel presetting key
+ 🚓 –		Channel tuning keys
	<b>♦</b>	Channel storing keys
	0	Broadcasting stations Identification key
	RESET	Cancel key

# SECTION 2 DISASSEMBLY

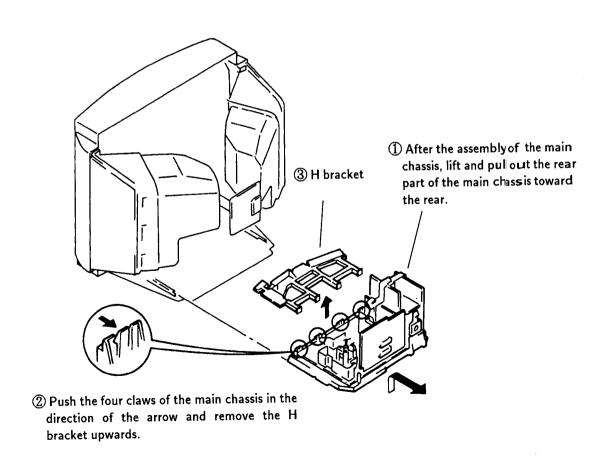
# 2-1-1. REAR COVER REMOVAL (21 inch)

③ Rear cover
② Six screws
(BVTP 4 x 16)
① One screw
④ Rear cover (BVTP 4 x 16)

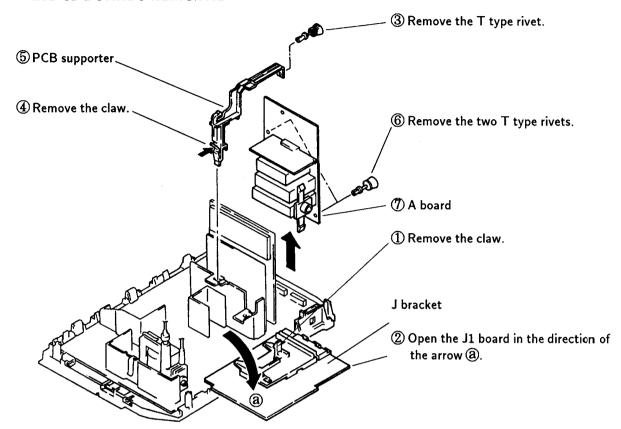
# 2-1-2. REAR COVER REMOVAL (25 inch, 29 inch)



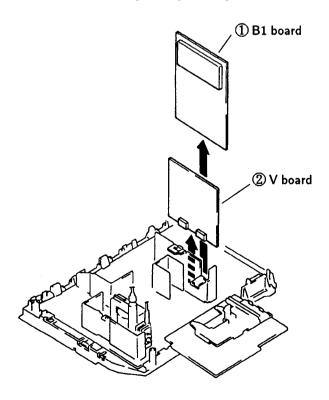
# 2-2. CHASSIS ASSEMBLY REMOVAL



## 2-3. A AND J1 BOARDS REMOVAL

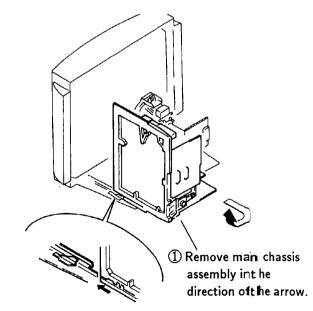


## 2-4. B1 AND V BOARDS REMOVAL

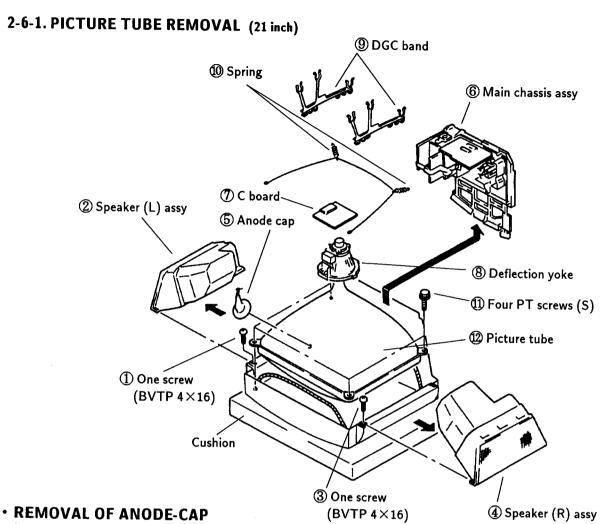


## 2-5. SERVICE POSITION

※ Remove the H bracket from the main chassis assembly and then perform the following servicing. (Refer to 2-2. CHASSIS ASSEMBLY REMOVAL.)

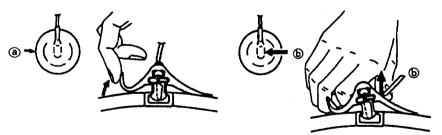


② Connect the main chassis assembly to the holder.



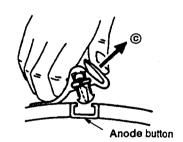
NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT chield or carbon painted on the CRT, after removing the anode.

## REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ②.

Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⑤.



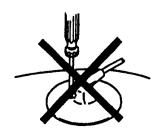
When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©.

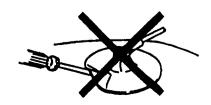
## HOW TO HANDLE AN ANODE-CAP

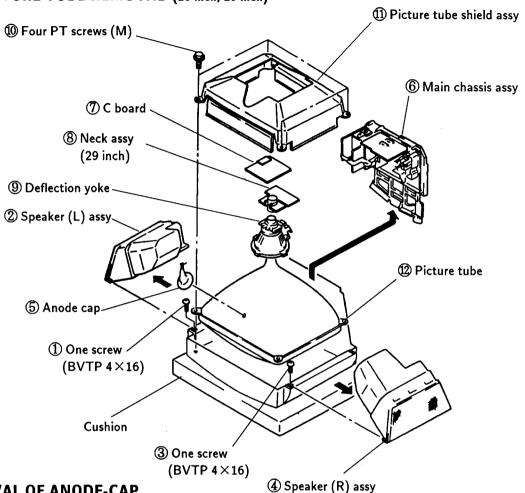
- Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook
- terminal is built in the rubber.

  Don't turn the foot of rubber over hardly!

  The shatter-hook terminal will stick out or hurt the rubber.



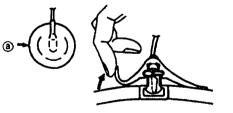


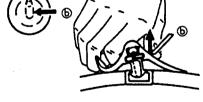


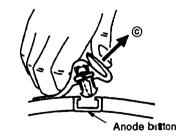
REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT chield or carbon painted on the CRT, after removing the anode.

### REMOVING PROCEDURES



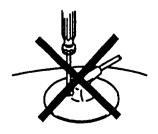


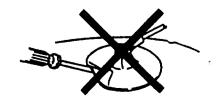


- ① Turn up one side of the rubber cap in the ② Using a thumb pull up the rubber cap direction indicated by the arrow @.
- firmly in the direction indicated by the arrow (b).
- 3 When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©.

## • HOW TO HANDLE AN ANODE-CAP

- 1 Don't hurt the surface of anode-caps with sharp shaped material!
- Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook
- terminal is built in the rubber. Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.





## **SECTION 3**

## **SET-UP ADJUSTMENTS**

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- ◆ These adjustments should be performed with rated power supply voltage unless otherwise noted. The controls and switch below should be set as follows unless otherwise noted:
  - CONTRASTcontrol ······ 80%(or Normal by commander)

☼ BRIGHTNESS control ..... 50%

Perform the adjustments in order as follows:

### Preparation: (21 inch, 25 inch)

- Set the side of the unit with the PICTUE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser..

## 3-1. BEAM LANDING

Demagnetize with a degausser

1. Input a raster signal with the pattern generator.

CONTRAST BRIGHTNESS

normal

- 2. Turn the raster signal of the pattern generator to red
- 3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides evenly.

  (Fig. 3-1 3-3)
- 4. Move the deflection yoke forward, and adjust so that the entire screen becomes red. (Fig.3-1)
- 5. Switch over the raster signal to blue and blue and confirm the condition.
- When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
- 7. When landing at the corner is not right, adjust by using the disk magnets. (Fig. 3-4)

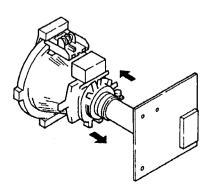


Fig.3-1

- 1. Beam Landing
- 2. Convergence
- 3. Focus
- 4. Screen (G 2) and White Balance

Note: Test Equipment Required.

- 1. Color bar/Pattern Generator
- 2. Degausser
- 3. DC Power Supply
- 4. Digital multimeter
- 5. Oscilloscope

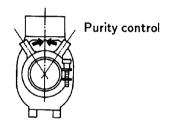


Fig.3-2

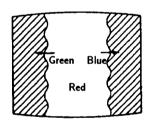
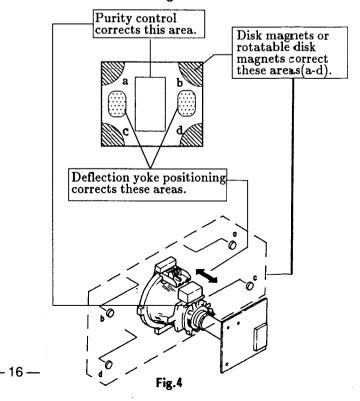


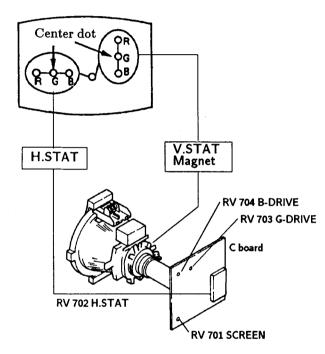
Fig.3-3



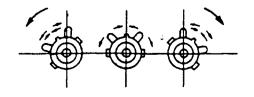
## 3-2. CONVERGENCE

### Preparation:

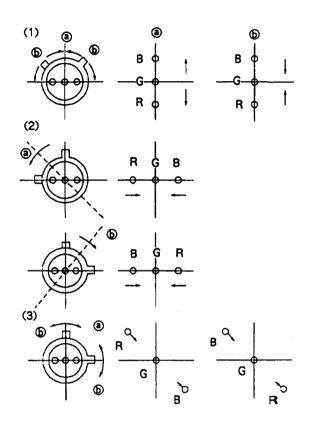
- Before starting, perform FOCUS, H.SIZE, and V.
   SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.
- (1) Horizontal and Vertical Static Convergence



- 1. Adjust H.STAT VR to converge red, green and blue dots the in center of the screen. (Horizontal movement)
- 2. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
- 3. If the red, green and blue dots do not converge on the center of screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)
- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4. When the V.STAT magnet is moved in the direction of arrow (a) and (b), red, green and blue dots move as shown below.



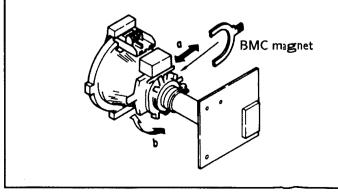
## (KV-21 inch only)

If the red and blue dot do not converge with green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H.static convergence.

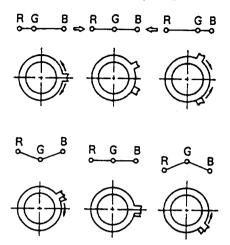
Rotate BMC magnet (b) to correct insufficient V.static convergence.

In either case, repeat Beam Landing Adjustment.



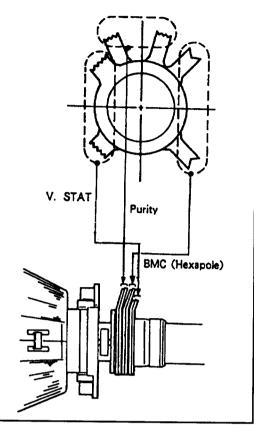
## (KV-25 inch only)

• Operation of BMC (Hexapole) Magnet



The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
 Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen

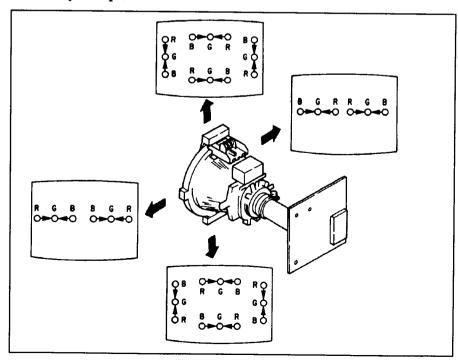
(by moving the dots in the horizontal direction).



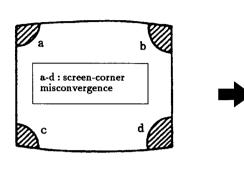
# (2) Dynamic Convergence Adjustment Preparation:

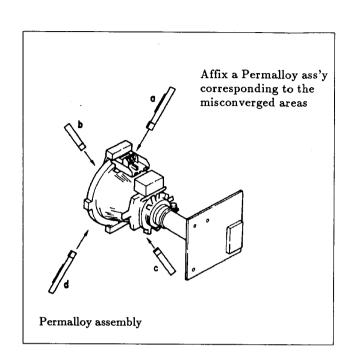
- Before starting perform Horizontal and Vertical static convergence Adjustment.
- 1. Slightly loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.

- 3. Move the deflection yoke for best convergence as shown below.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.



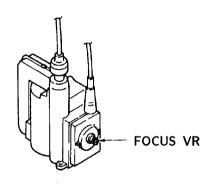
## (3) Screen-corner Convergence



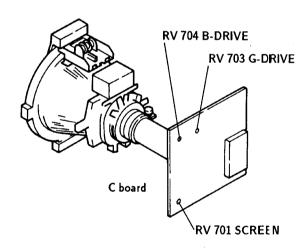


## **3-3. FOCUS**

Adjust FOCUS so that the whole screen is in best focus.



# 3-4. SCREEN (G 2) and WHITE BALANCE



## Screen (G 2) Setting

- 1. Input dot signal from the pattern generator.
- 2. Set the picture BRIGHTNESS control to minimum level.
- 3. Apply 170 V DC to the cathodes of R,G and B from an external power power source.
- 4. While watching the picture, adjust the G 2 volume (RV701) immediately before fly-back line disappears.

# White Balance Adjustment

- 1. Input all-white signal from the pattern generator.
- 2. Adjust the BRIGHTNESS and COLOR controls to the standard level.
- 3. Adjust the following using RV 704 (B DRIVE) and RV 703 (G DRIVE)

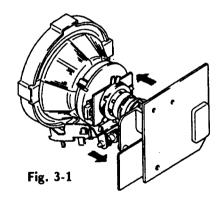
In the following adjustments, the CONTRAST, COLOR and BRIGHTNESS controls are set to normal unless otherwise specified.

### Preparations: (29 inch)

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

## 3-1. BEAM LANDING

- Input the white signal with the pattern generator. Contrast normal **Bightness**
- Position neck ass'y as shown in Fig 3-2. 2.
- Set the pattern generator raster signal to red.
- Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side.
  - (See Figures 3-1 through 3-3.)
- Move the deflection yoke forward and adjust so that entire screen is red. (See Figure 3-1.)
- Switch the raster signal to blue, then to green and verify the condition.
- When the position of the deflection yoke has been decided, fasten the deflection yoke with the
- If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Figure 3-4.)



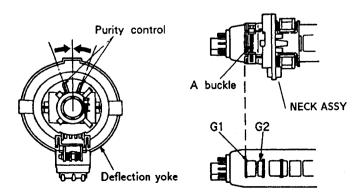


Fig. 3-2

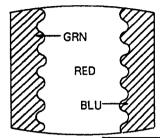
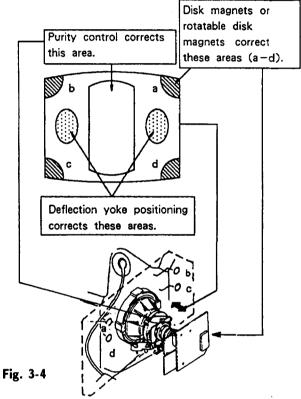


Fig. 3-3

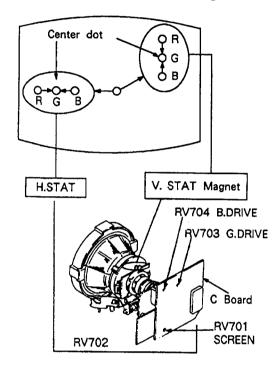


### 3-2. CONVERGENCE

## Preparations:

- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

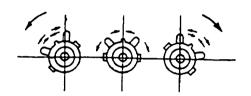
# (1) Horizontal and vertical static convergence



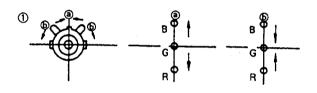
- 1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
- 2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
- 3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.

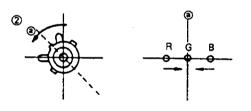
  (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

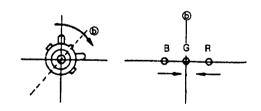
• Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

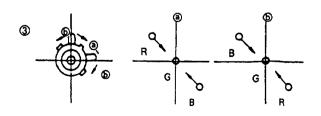


4. If the V.STAT magnet is moved in the direction of the ② and ⑤ arrows, the red, green, and blue points move as shown below.

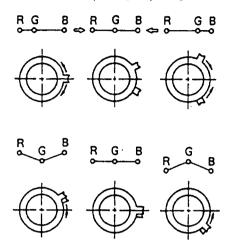






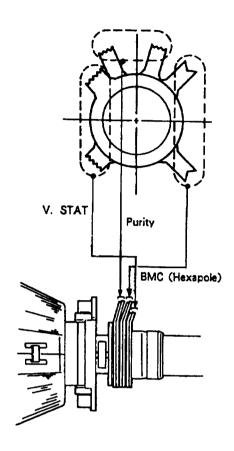


• Operation of BMC (Hexapole) Magnet



 The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
 Use the H.STAT VR to adjust the red, green,

and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

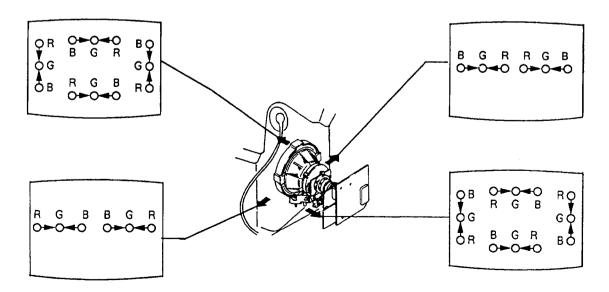


# (2) Dynamic convergence adjustment Preparations:

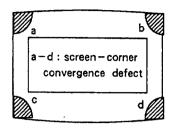
Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

- 1. Slightly loosen the deflection yoke screws.
- 2. Remove the deflection yoke spacer.

- 3. Move the deflection yoke as shown in the figure below and optimize the convergence.
- 4. Tighten the deflection yoke screws.
- 5. Install the defelection yoke spacer.

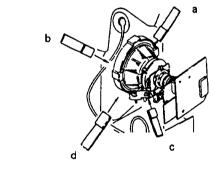


### (3) Screen corner convergence





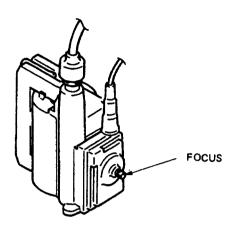
Install the permalloy assembly for the section with faulty.



Permalloy

## **3-3. FOCUS**

Adjust the focus to optimize the screen.



### 3-4. WHITE BALANCE

### [Screen G2 setting]

- 1. Input the dot signal from the pattern generator.
- 2. Set the picture brightness control to its lowest level.
- 3. Apply 170V DC to the R, G, and B cathodes with an external power supply.
- 4. While watching the picture, adjust G2 control RV701 (Screen) to the point just before the return lines disappear.

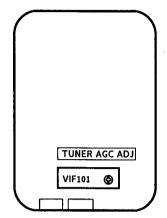
## [ White balance adjustment ]

- 1. Input an all-white signal from the pattern generator.
- 2. Set the picture brightness and color controls to their normal levels.
- 3. Use the RV704 (B Drive) and RV703 (G Drive) to adjust white balance.

In the adjustments below, have the picture color and brightness settings at their normal levels unless there is a specific instruction to the contrary.

# SECTION 4 CIRCUIT ADJUSTMENTS

### 4-1. A BOARD ADJUSTMENTS

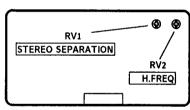


A BOARD (COMPONENT SIDE)

## TUNER AGC ADJUSTMENT (AGC VR)

- 1. Align with an appropriate signal between stations.
- Adjust AGC VR so that snow noise and cross modulation just disappear from the picture.

### IFG5.5S SIF



IFG5.5S SIF -component side-

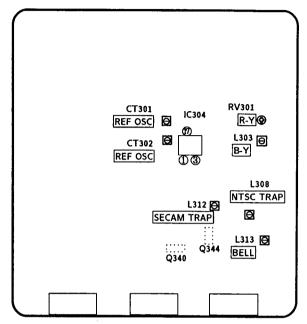
## STEREO SEPALATION ADJUSTMENT (RV1)

- 1. Input stereo signals. (L-CH 400Hz, R-CH 1KHz)
- 2. Check the stereo indicator.
- 3. Connect on oscilloscope to pin® (CH1) of CN1 through band pass filter of 1KHz
- 4. Adjust RV1 so that 1KHz voltage goes down to the minmum.

## H FREQ (RV2)

- Input a PAL COLOR BAR signal, then connect a jumper between pin<sup>®</sup> IC4 and GND.
- Connect a frequency counter to pin IFG5.5S
   (HP) of CN1 through a probe of 10:1.
- 3. Adjust RV2 (H.FREQ)  $15.625 \pm 50$ Hz.
- 4. After adjustment, remove the jamper.

### 4-2. B1 BOARD ADJUSTMENTS



**B1 BOARD (COMPONENT SIDE)** 

# REFERENCE OSCILLATOR ADJUSTMENT (CT302 8.8MHz)

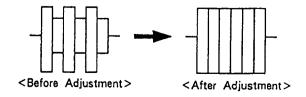
- 1. Input a PAL color bar signal.
- 2. Ground pin \( \mathbb{T} \) of the IC304.
- 3. Adjust CT302 to obtain synchronization.

# REFERENCE OSCILLATOR ADJUSTMENT (CT301 7.16MHz)

- 1. Input an NTSC color bar signal.
- 2. Ground pin T of IC304.
- 3. Adjust the CT301 to obtain synchronization.
- 4. Remove the jumper grounding pin (7) of IC304.

### BELL FILTER ADJUSTMENT (L313)

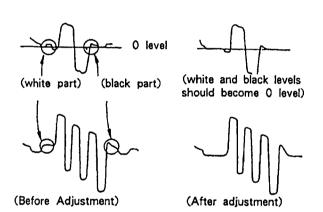
- 1. Input a SECAM color bar signal.
- 2. Connect the oscilloscope to the emitter of Q344.
- 3. Adjust L313 so that the waveform is flat.



# DISCRIMINATION ADJUSTMENTS (RV301 and L303)

- 1. Input a SECAM color bar signal.
- 2. Connect the oscilloscope to pin ① of IC304.
- 3. Adjust RV301 until the white and black sections of the waveform at pin ① are at the 0 level.

  Connect the oscilloscope to pin ③ of IC304.
- 4. Adjust L303 until the white and black sections of the waveform at pin 3 are at the 0 level.



# SECAM TRAP (L312)

- 1. Input a SECAM color bar signal.
- Connect oscilloscope to Q340 emitter and adjust
   L312 to minimize color carrier on the Y-signal.

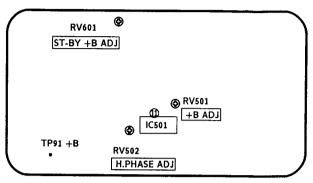


# NTSC TRAP (L308)

- 1. Input a NTSC (3.58) color bar signal.
- Connect oscilloscope to Q340 emitter and adjust
   L308 to minimize color carrier on the Y-signal.



## 4-3. D BOARD ADJUSTMENTS



D BOARD (COMPONENT SIDE)

## +B ADJUSTMENT (RV501)

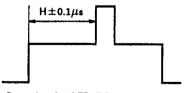
- 1. Connect the digital multimeter to TP91.
- 2. Adjust RV501 to obtain  $135 \pm 0.2$ V.

## ST-BY +B ADJUSTMENT (RV601)

- 1. Put the system into  $\circlearrowleft$  standby mode (remote commander).
- 2. Connect the digital multimeter to TP91.
- 3. Adjust RV601 to obtain 135±3V.
- 4. Take the system out of  $\circlearrowleft$  standby mode (remote commander).

## H.PHASE ADJUSTMENT (RV502)

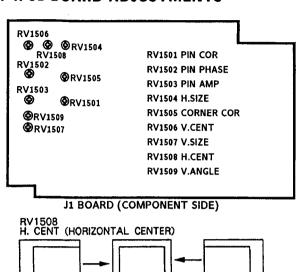
- 1. Input a PAL color bar signal.
- 2. Set the picture and brightness controls to their normal levels.
- 3. Set RV1508 (H.CENT) to its mechanical center.
- 4. Connect the oscilloscope to pin (I) (SCP) of IC 501.
- 5. Rotate RV502 to adjust to  $H \pm 0.1 \mu s$ .

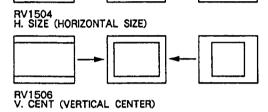


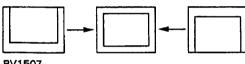
Standard of H. PHASE

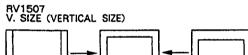
Model Size	Н
21 "	$5.6 \mu \mathrm{s}$
25 "	$5.1 \mu \mathrm{s}$
29 "	$5.5 \mu s$

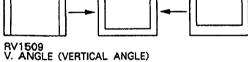
## 4-4. J1 BOARD ADJUSTMENTS

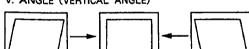




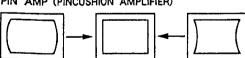




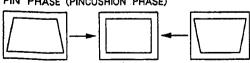


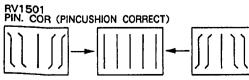


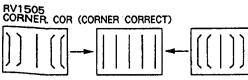




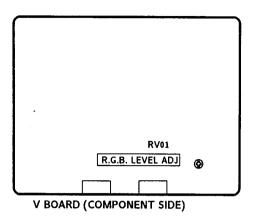








## 4-5. V BOARD ADJUSTMENT



# RGB LEVEL ADJUSTMENT (RV01)

- Maximize the picture setting.
- 2. Adjust RV01 so that the RGB output is 0.75V.

## 4-6. SECONDARY ADJUSTMENTS

### SUB BRIGHTNESS ADJUSTMENT

- 1. Set the system to receive a test pattern.
- Press → ← on the remote commander to put the system into normal mode.
- 3. Switch off the power.
- While depressing the adjusting buttons + and
   simultaneusly, turn on the power. (SUB mode is obtained)
- 5. Minimize the O contrast setting.
- 6. Adjust the ☆ brightness control so that the gray scale 0 IRE section is cut off completely and the 20 IRE section is barely glowing.
- 7. Depress the  $\diamondsuit$  (store) button of the remote commander.

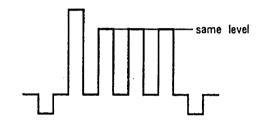
(SUB mode is released)

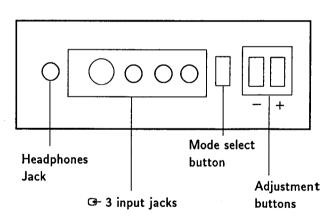
If there is no test color pattern

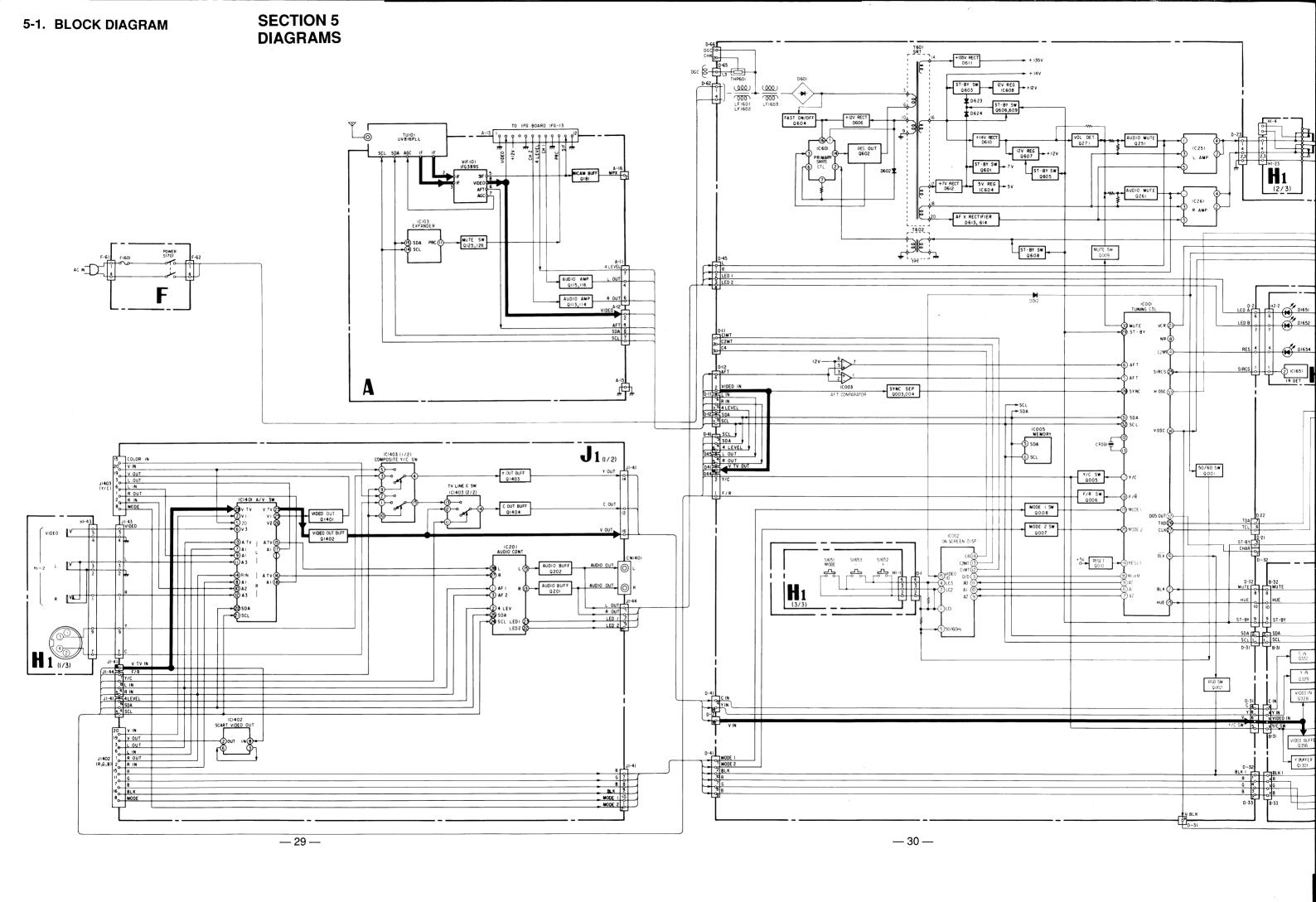
- 1. Set the system to receive a color pattern.
- Press → ← on the remote commander to put the system into normal mode.
   Set the color to its normal state.
- 3-5. Steps are the same as above.
- 6. Since 20 IRE is nearly blue, adjust the ♯ brightness control so that the blue barely glows.
- 7. Same as step 7 above.
- Press → ← on the remote commander to put the system into normal mode.

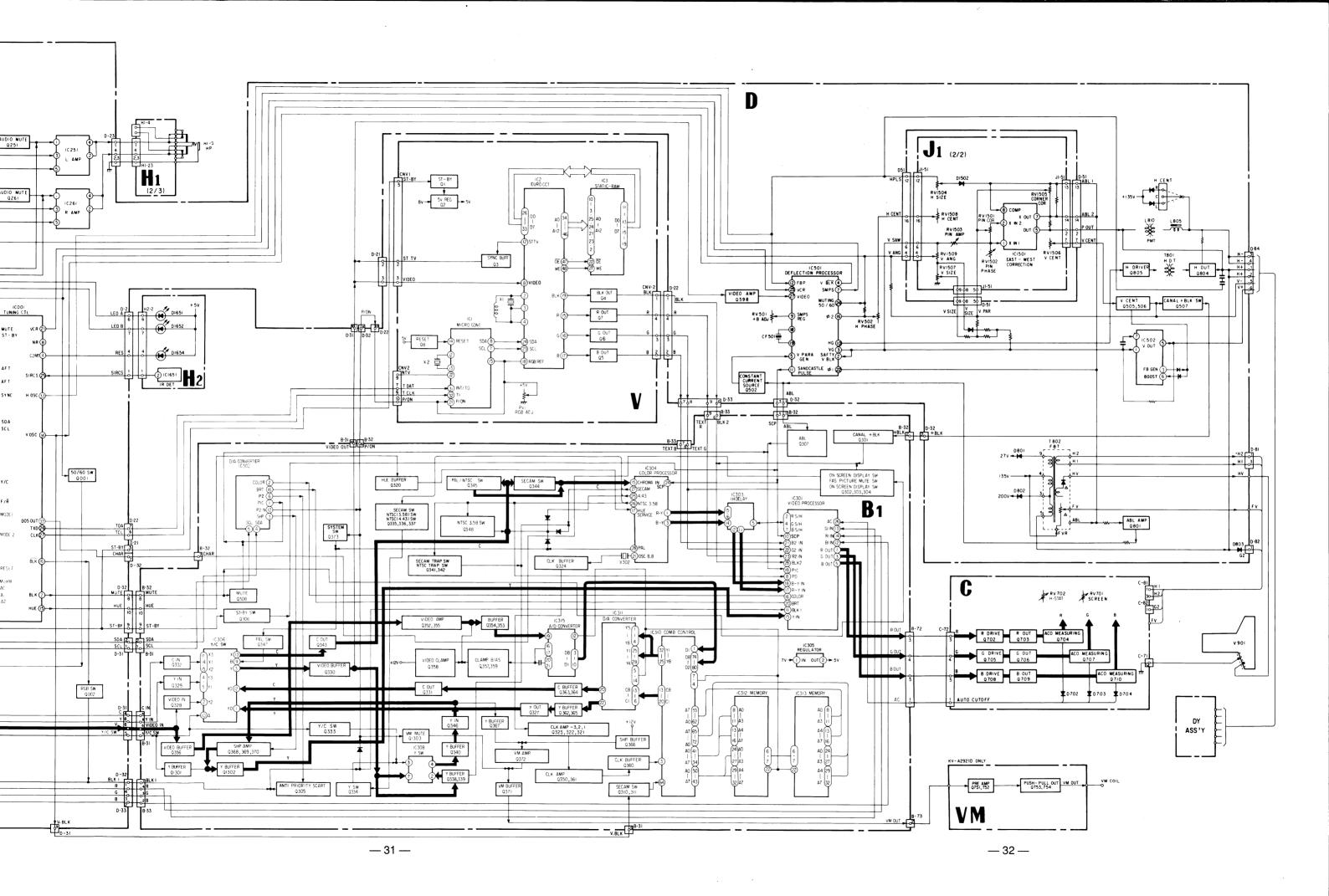
## SUB COLOR ADJUSTMENT

- 1. Set the system to receive color bars.
- Press → ← on the remote commander to put the system into normal mode.
- 3. Cut off the power.
- 4. While depressing the adjustment buttons + and
   simultaneusly, turn on the power. (SUB mode is obtained).
- 5. Adjust the color control so that the B out waveform (pin ⑤ of C board connector CNC72) is as shown in the figure below.
- 6. Depress the  $\diamondsuit$  (store) button of the remote commander. (SUB mode is released)

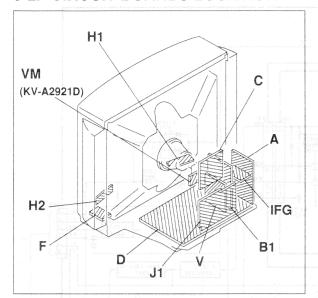








## 5-2. CIRCUIT BOARDS LOCATION



## 5-3. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

## - Conductor Side -

### Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- · All electrolytics are in 50V unless otherwise specified.
- · All resistors are in ohms.
- $k\Omega = 1000\Omega$ ,  $M\Omega = 1000K\Omega$
- · Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm

Rating electrical power 1/4W

- METAL FILM (:RN) resistors in 1%, 1/6W unless otherwise secified.
- fwl: nonflammable resistor.
- : panel designation, or adjustment for repair.
- · All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- \_\_\_\_: earth-ground.
- \_\_\_\_: earth-chassis.
- · All voltages are in V.
- · Voltage are dc with respect to ground unless otherwise
- Readings are taken with a 10 M $\Omega$  digital multimeter.
- · Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerance.
- B+ bus.
- signal path. (RF)
- · Circuled numbers are waveform references.

### Reference information

RESISTOR : RN METAL FILM RC SOLID : FPRD NONFLAMMABLE CARBON : FUSE NONFLAMMABLE FUSIBLE : RW NONFLAMMABLEWIREWOUND NONFLAMMABLEMETALOXIDE : RS NONFLAMMABLE CEMENT : RB ADJUSTMENT RESISTOR : **:**× COIL : LF-8L MICRO INDUCTOR CAPACITOR : TA **TANTALUM** : PS STYROL : PP POLYPROPYLENE :PT **MYLAR** : MPS METALIZED POLYESTER : MPP METALIZED POLYPROPYLENE BIPOLAR : ALB HIGH TEMPERATURE : ALT : ALR HIGH RIPPLE

### Note:

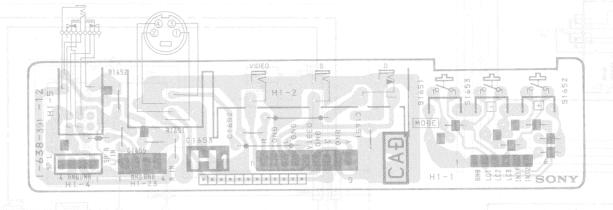
The components identified by shading and mark  $\Delta$ are critical for safety. Replace only with part number specified.



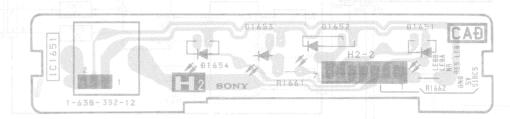
SIRCS RECEIVER, INDICATOR

[AC IN, POWER SW]

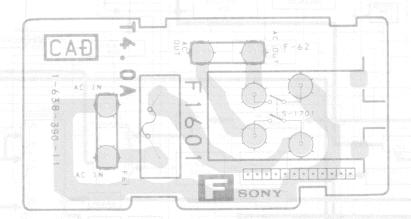
## - H1 Board -



## - H2 Board -



## - F Board -

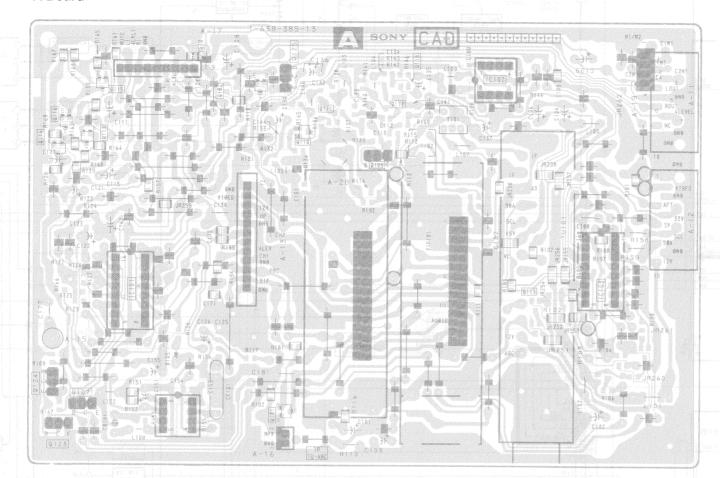


[TUNER

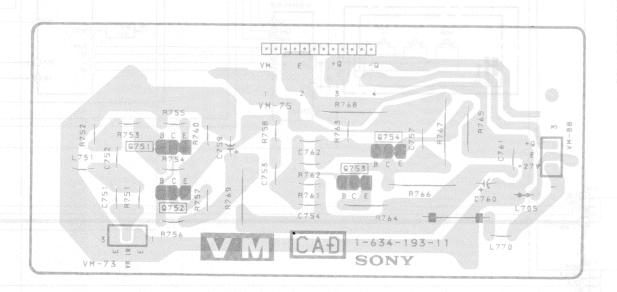
- A Board



— A Board —

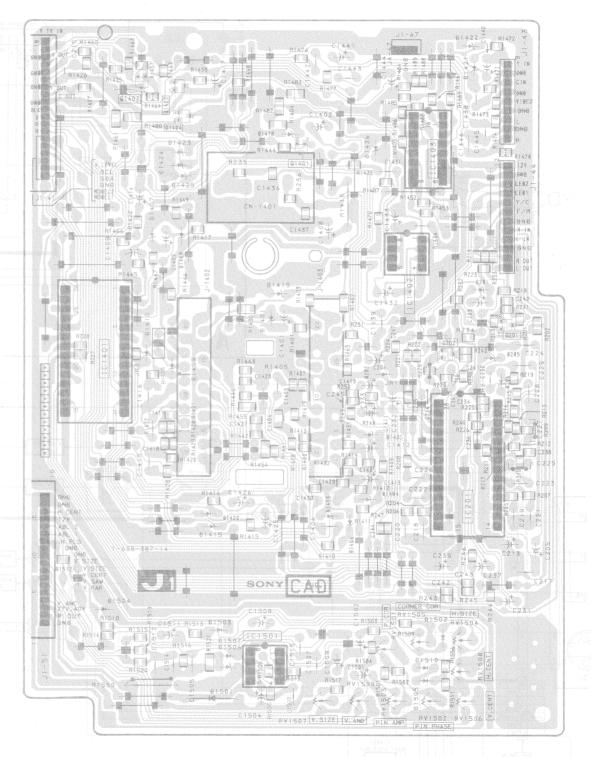


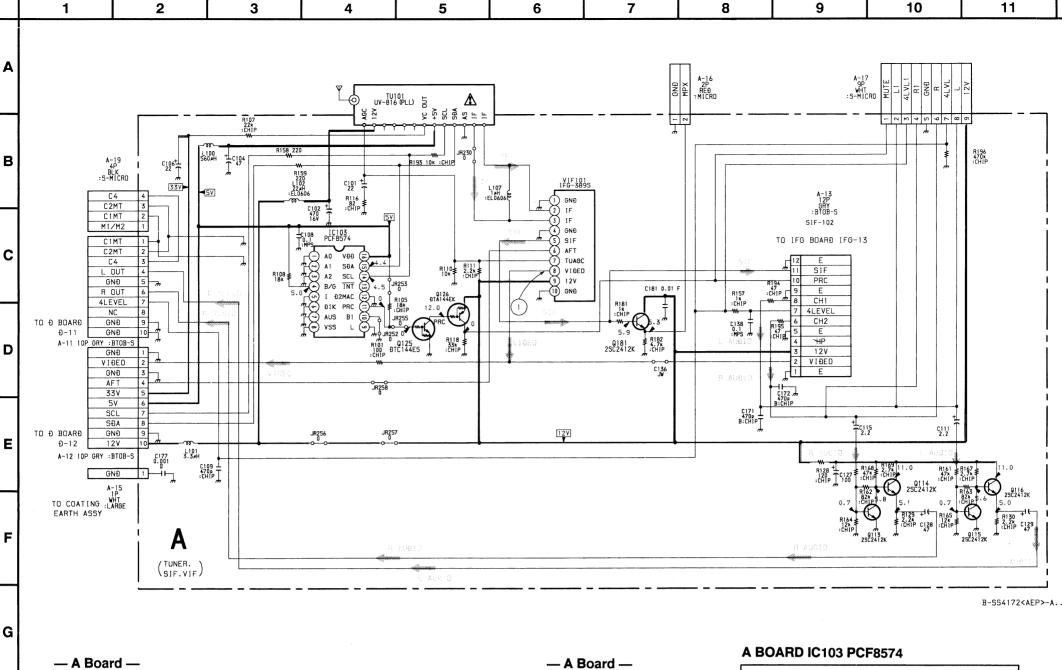
- VM Board - (KV-A2921D ONLY)

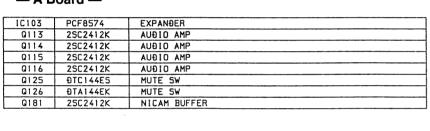


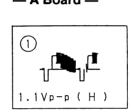
J1 AUDIO CONTROL, AV INPUT Y/C INPUT, SCART VIDEO OUT, EAST-WEST CORRECTION

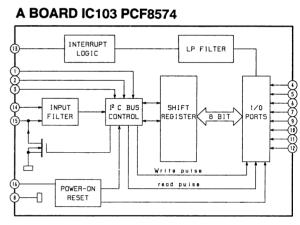
— J1 Board —

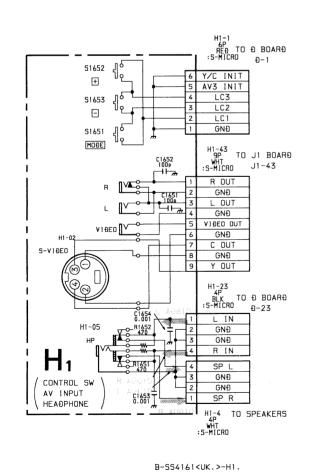


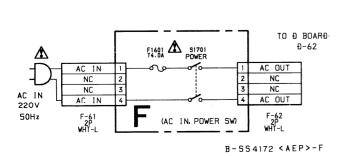


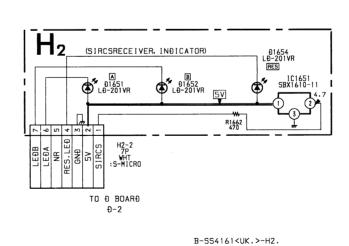












101631	3881610-11	INFHARED RECIVER	
Ð1651	LÐ-201VR	AUÐIO CHANNEL A INÐICATOR	
Ð1652	LÐ-201VR	AUDIO CHANNEL B INDICATOR	
Ð1654	LÐ-201VR	RESET INDICATOR	

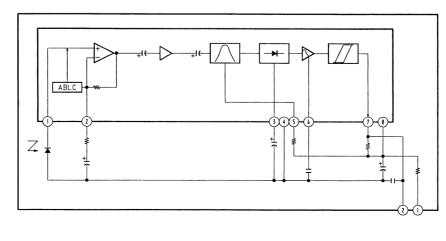
— H2 Board —

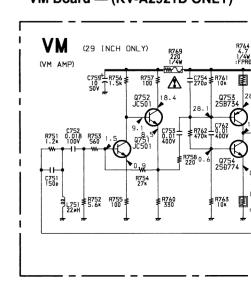
 Q751
 JC501
 REF-AMP

 Q752
 JC501
 REF-AMP

 Q753
 2SB734
 PUSH-PULL

H2 BOARD IC1651 SBX1610-11





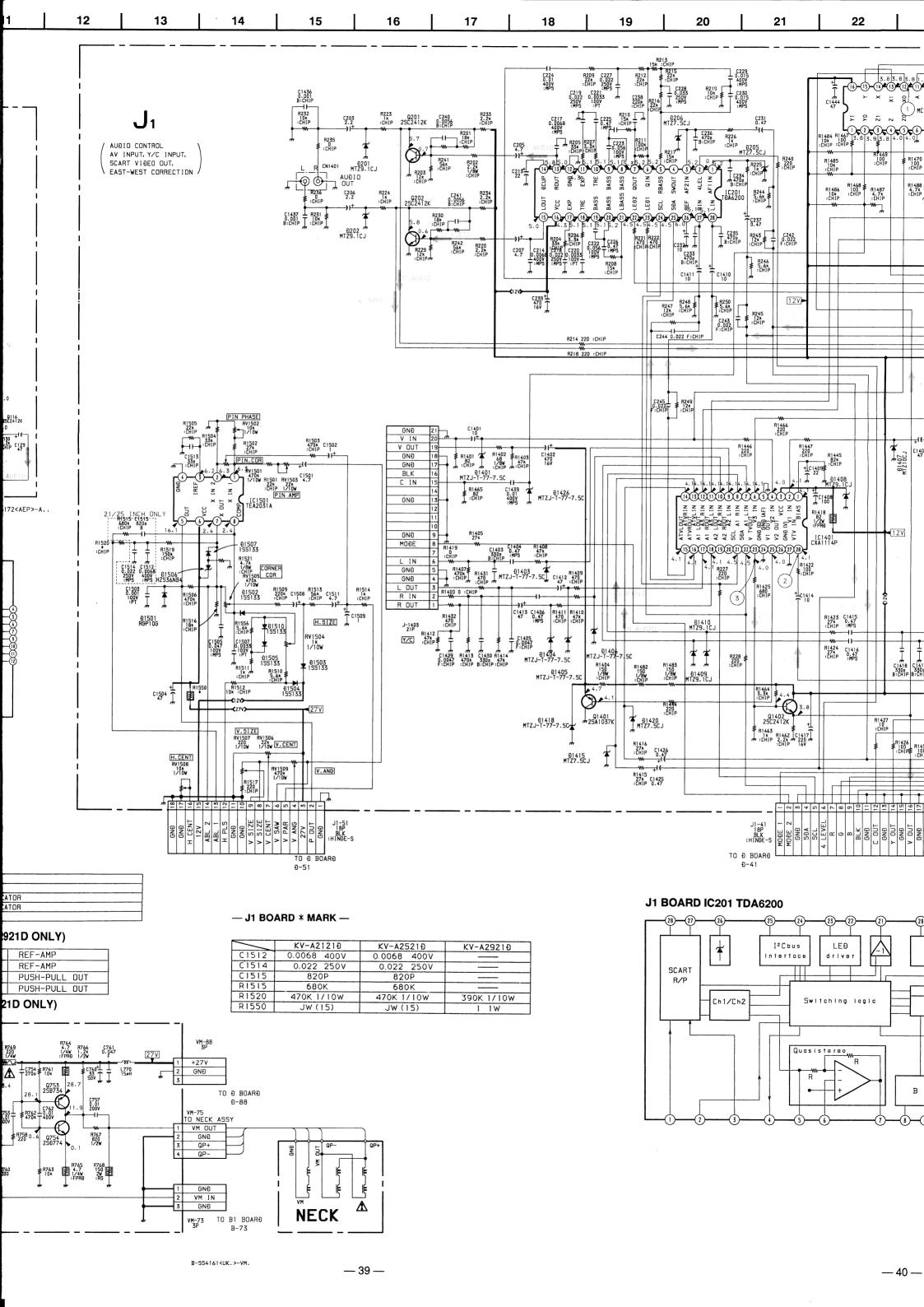
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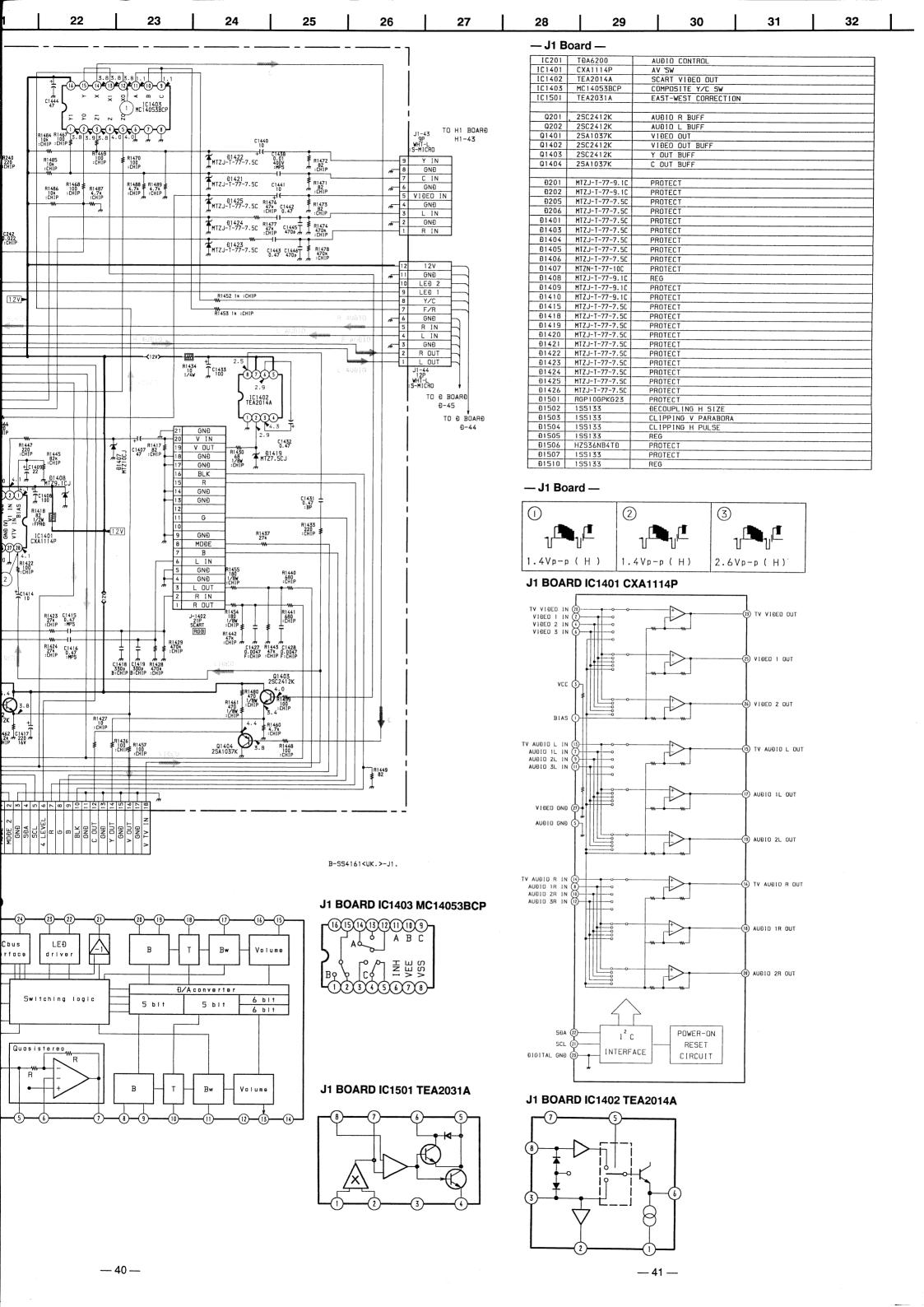
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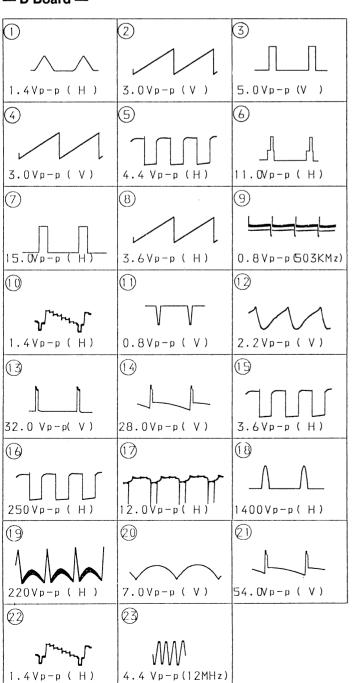




## — D BOARD \* MARK —

— D BOARD ↑ MARK —					
	KV-A2121Đ	KV-A2521Đ	KV-A2921Đ		
C519	0.47	0.47	0.33		
C526	27P	27P	22P		
C536	4.7 16V	10 16V	10 16V		
C617	220 25V	100 50V	100 50V		
C620	1 63V	0.47 50V	0.47 50V		
C811	1 200V	2 200V	2 200V		
C815	1 200V	1 200V	0.82 200V		
C817	0.0106 1.4KV	0.015 1.4KV	0.017 1.4KV		
C821	680P 2KV	680P 2KV	470P 2KV		
R525	1K 1/10W	1K 1/10W			
R531		120K 1/10W	120K 1/10W		
R532					
R533	180 1/10W	0 1/10W	0 1/10W		
R535	4.7M 1/4W	2.2M 1/4W	2.2M 1/4W		
R545	39K 1/10W	22K 1/10W	22K 1/10W		
R547	5.6K 1/10W	3.3K 1/10W	3.3K 1/10W		
R548	1.2 1W	1 1W	1 1W		
R549	470 2W	390 2W	390 2W		
R552	1.2K 1W		~~~		
R561			270K 1/10W		
R570			680 1/10W		
R600		1 1/4W	1 1/4W		
R603	15 3W	12 3W	12 3W		
R607	4.7K 1/10W	4.7K 1/10W	5.6K 1/10W		
R631	27K 2W	27K 2W			
R643	0.15 2W	0.12 2W	0.12 2W		
R811	100 1W	22 2W	22 2W		
R812	75K 1/2W	68K 1/2W	51K 1/2W		
R825	1 1W	0.47 1W	0.47 1W		
R5503	4.7 1/10W	4.7 1/10W	10 1/10W		
R5506			12K 1/10W		
JW202			5MM		
JW203	5MM	5MM			
JW204	5MM	5MM			
J <b>W</b> 205	<del></del>		5MM		
JW206	5MM	5MM			
JW207	5MM	5MM			
JW216	15MM	15MM			
JW229	1 OMM	1 0MM			
L801			3.9MH		
			70.000,050,700		
Đ88	MT7 1100	MTZ 1170	3P CONNECTOR		
Đ271	MTZJ12C	MTZJ13B	MTZJ13B		
Ð506	ĐA204K	ĐA204K	100177		
Đ509	1) / (5)	155133	155133		
Ð514	JW (5)	JW (5)	155133		
Đ515			155133		
Đ807		ERC06-155	ERC06-155		
808G	ERÐ28-085	ERÐ29-08J	ERÐ29-08J		

# — D Board —



### - D Board -

— D Воа	ard —	
10001	SĐA20560-A012	TUNING CTL
10002	MC14051BCP	ON SCREEN DISPLAY
10003	BA4558	AFT COMPARATOR
10005	SĐA2546	MY MEMORY
IC251	TĐA2050	AUÐIO OUT (L)
IC261	TĐA2050	AUÐ10 OUT (R)
10501	TEA2028B	DEFLECTION PROCESSOR
1C502	TĐA8170	V OUT
10601	TEA2260	PRIMARY SMRS CTL
10604	TEA7605	+5V REG
10608	MC7812CT	+12V REG
Q001	ĐTC144EK	50/60Hz SW
Q002	ĐTC144EK	BLK SW
Q003	25A1037K	SYNC SEPARATOR
Q004	25A1037K	SYNC SEPARATOR
Q005	ÐTC144EK	Y/C SW
0006	ĐTC144EK	FRONT/REAR SW
Q007	25C2412K	MOĐE 2 SWITCH
8000	25C2412K	MOĐE 1 SWITCH
Q009	25C2412K	MUTE SW
Q010	25C2412K	RESET
Q251	25C2412K	AUBIO MUTE
Q261	25C2412K	AUÐIO MUTE
Q271	2SC2412K	VOLTAGE DETECT
Q502	2SA1037K	CONSTANT CURRENT SOURCE
Q505	2SÐ774	V CENT
Q506	2SB734	V CENT
Q507	25A1037K	CANAL +BLK
Q598	25A1037K	VIĐEO AMP
Q601	2SB1357T114EF	STBY SW
Q602	25Ð1548	REG OUT
Q603	2SB1357T114EF	STBY SW
Q604	2SA1037K	FAST ON/OFF
Q605	25C2412K	STBY SW
0606	25C2412K	STBY SW
Q607	2SÐ2096-EF	+12V REG
0608	25C2412K	STBY SW
0609	25Đ789-3	STBY SW
Q801	25C2412K	ABL AMP
Q804 0005	25Ð1941	H OUT
Q805	2SC2688	H DRIVER
10001	NT7 1/ 00	DDOTTOT
Đ001	MTZJ6.8C	PROTECT
0002	MTZJ6.8C	PROTECT
Đ003	155133 MTZJ5.6B	PROTECT
0005	MTZJ3.6B	VC VOLTAGE REGULATION
Đ006 Đ007	MTZJ35A	PROTECT RESET
0007	MTZJ5.6B	CLIPPING SYNC LEVEL
Đ010	MTZJ6.2B	PROTECT
ĐO10	MTZJ6.2B	PROTECT
Đ012	155133	PROTECT
Đ013	MTZJ6.8C	PROTECT
Đ271	RD12ES-B2	VOLTAGE DETECT (21 INCH ONLY)
0271	MTZJ13B	VOLTAGE DETECT (25/29 INCH ONLY)
Đ272	155133	DECOUPING MUTE AUDIO
Đ501	155133	SOFT START
0504	GP08ĐPKG23	V PULSE OUT
£506	ĐA204K	CURRENT REG (21/25 INCH ONLY)
Ð508	155133	CANAL +BLK LEVEL
Đ509	1551331-77	V LIN (25/29 INCH ONLY)
Đ511	GP080PKG23	PROTECT
Ð512	GP08ĐPKG23	PROTECT
Đ513	MTZJ4.7B	PROTECT
Đ514	155133T-77	PROTECT (29 INCH ONLY)
Đ515	155133T-77	PROTECT (29 INCH ONLY)
0601	Đ4SB60L-F	AC RECT
Đ602	RGP10GPKG23	REF RECT
Đ603	GP08ĐPKG23	SMPS DRIVE 1
Đ604	GP08ĐPKG23	SMPS DRIVE 2
Đ605	GP08ĐPKG23	SMPS DRIVE 3
£006	RGP10GPKG23	+12V RECT
D607	RGP10GPKG23	REF RECT
8090	ERC25-065	PLUSE CLIPPER
£609	MTZJ33A	FAST ON/OFF
Đ610	CTU-125	+14V RECT
0611	ERÐ29-08J	+135V RECT
0612	CTU-125	+7V RECT
	RGP15J-6040G23	AF V RECT-1
	RGP15J-6040G23	AF V RECT-2
£616	MTZJ6.2B	+12V REG
£618	155133	PROTECT
Đ618	MTZJ5.6B	+12V REF
Đ618	MTZJ33A	FAST ON/OFF-2
£620	ĐA204K	+12V REF
	LIM / U4N	· ( 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Đ621	MTZJ33A	FAST ON/OFF-3

## — PICTURE TUBE \* MARK —

PROTECT

+12V RECT

+27V RECT

+200V RECT

G2 RECT

H CENTER-1

H CENTER-2

H ĐAMPER-1

H ĐAMPER-2

PIN DAMPER

PIN ĐAMPER

DECOUPING DTBY

Đ622

Ð624

Đ630

108G

Đ802

D803

Ð804

£080

908G

Đ807

808G

808G

155133

155133

MTZJ15A

RGP10GPKG23

RGP10GPKG23

GP08ĐPKG23

GP08ĐPKG23

ERC06-155

ERC06-155

ERÐ28-08S

ERÐ29-08S

RGP02-17PKG23

	KV-A2121Đ	KV-A2521Đ	KV-A2921Đ
V901	A51JXH61X	A59JWC61X	A68JYL61X

(25/29 INCH ONLY)

(25/29 INCH ONLY)

(21 INCH ONLY)

М

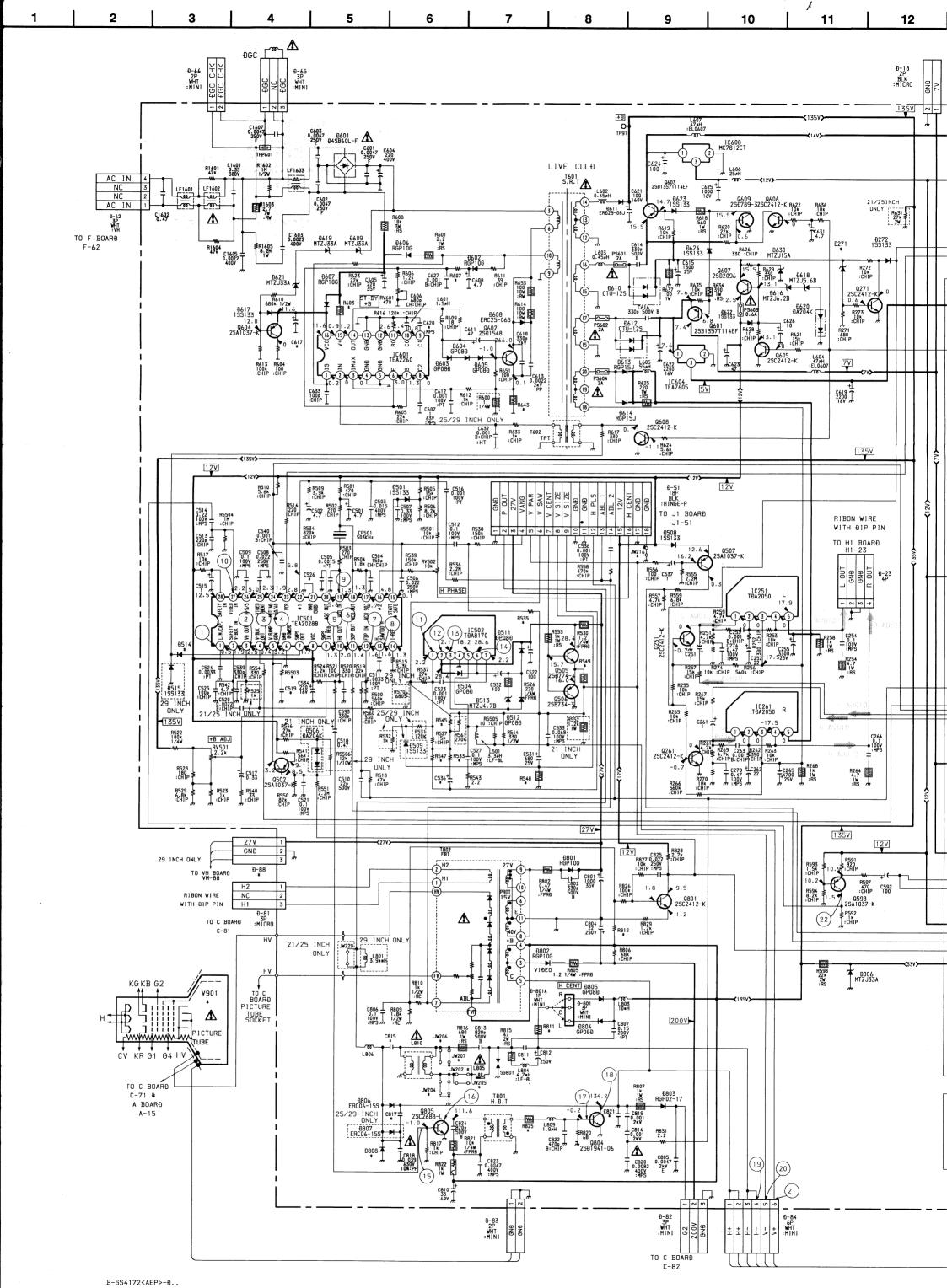
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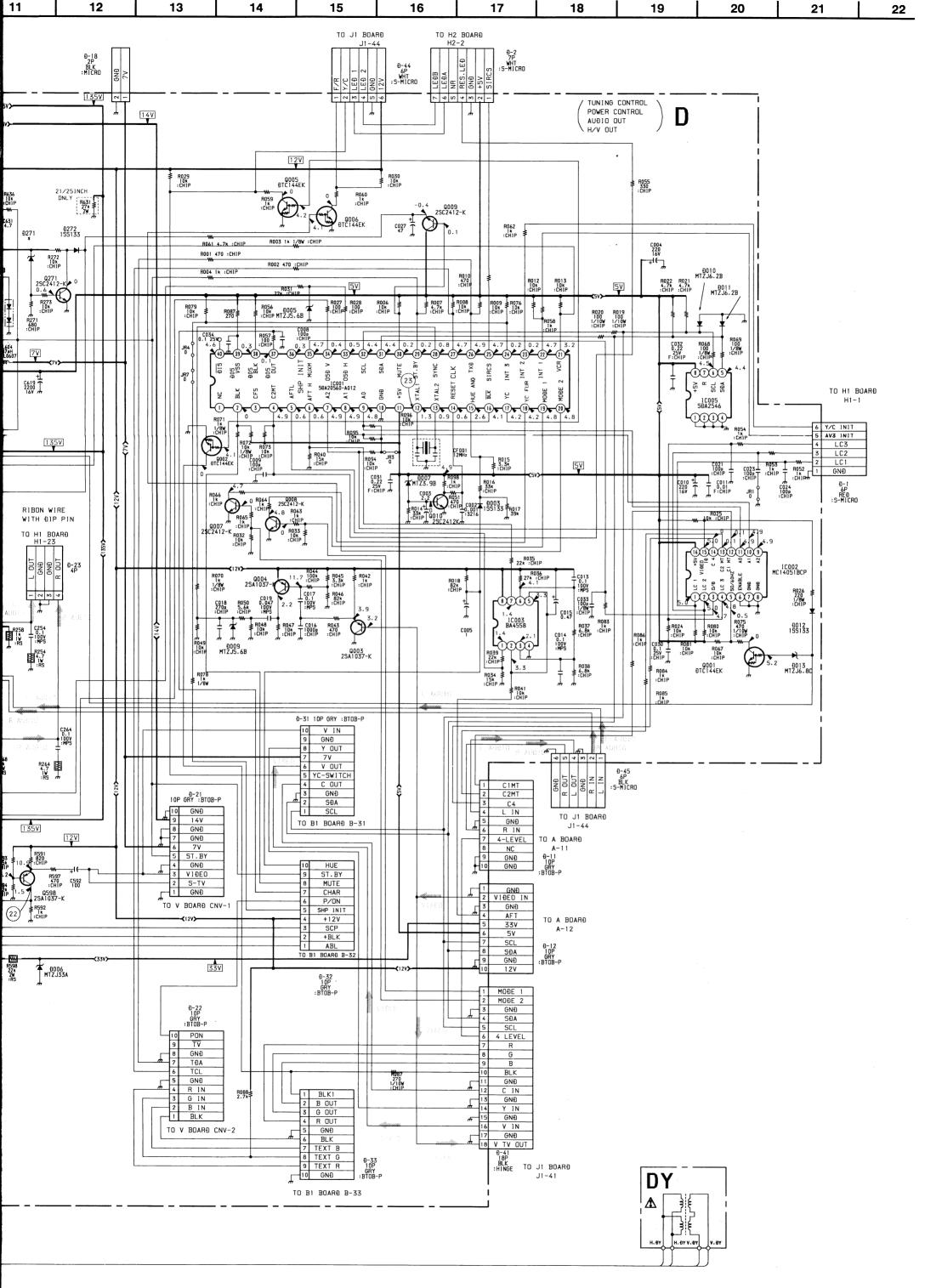
0

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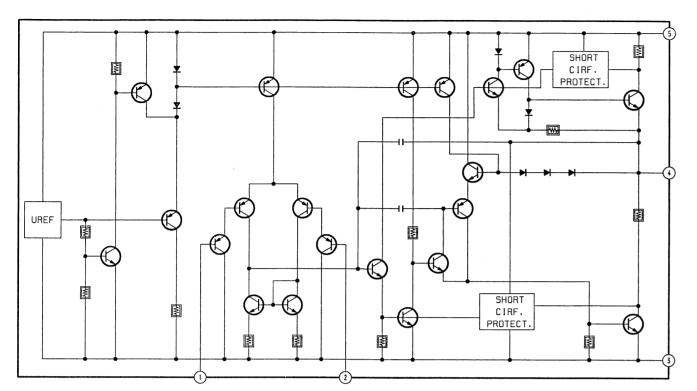
В

G

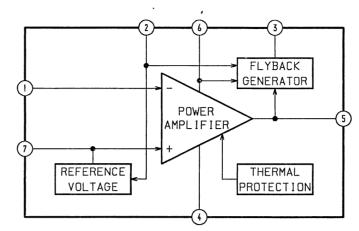


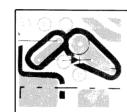


#### D BOARD IC251/261 TDA2050



#### D BOARD IC502 TDA8170

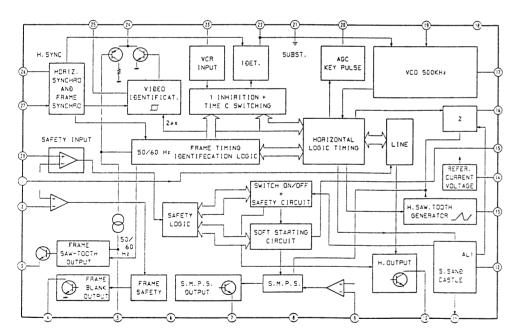




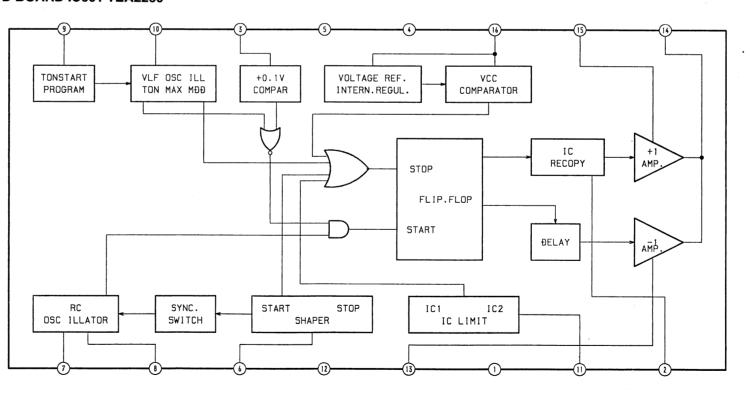
#### NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

### D BOARD IC501 TEA2028B

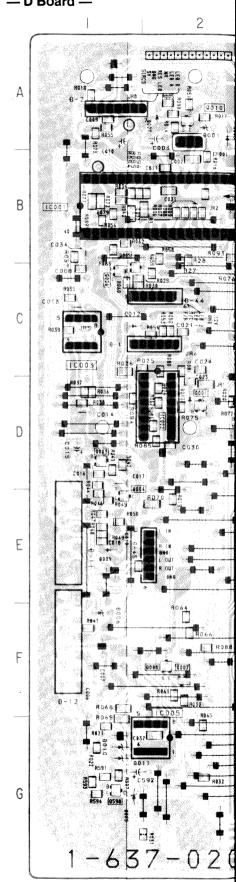


#### D BOARD IC601 TEA2260



TUNING CONTROL, POWER CONTRO

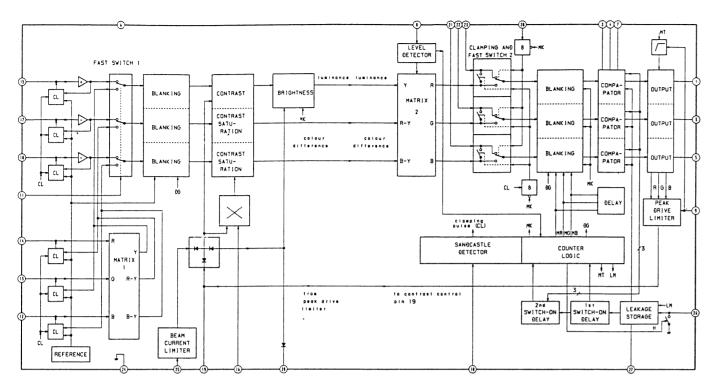
- D Board -



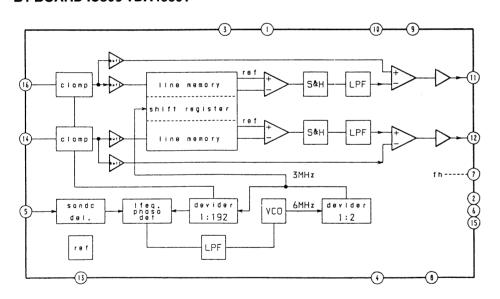
	2 2	3 4	5	6	7	8	9 10
	100	COOL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	60 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	600 2 2 8 4 6 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P6.08  P6.08  P6.08  P6.08	HOT LF1 & 03	E1602
В	150001 P012 P012 P012 P012 P012 P012 P012	255 DE T		TEOL SALES	H66	000 NC 800	EF1602
	7955 R075 R075 R075 R075 R075 R075 R075 R0	77.688 R260 U624 G60	B 2 3 4777		0013	SONY	R 600
	Ro19 JES Resg CO2	0.25	1 60 5	R611 R653	R614	C1603	CAÐ
	0001 0001 0001 0001 0001 0001 0001 000	22 (22) (23) (23) (24) (24) (25) (25) (25) (25) (25) (25) (25) (25	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	W202 W205 W205 W205 W205 W205 W205 W205	9808 US10 US08	L806 (80)
	CONTROL CONTRO		85 5 JE 25	9348 8333 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	B-84 <sub>11</sub> <sub>1</sub> <sub>1</sub>	RB 1 6 R+ H+	080.6 080.7
Committee of the commit	TAMES OF THE PARTY	839 S 825	5 2 115532]	19 2 2 4 4 1 5 5 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	8804 8805 8805 9801 F	RBT3	E GREAT
	6064 6064 6064 6065 6067		C523 C527 R550 C527 R550 C527 R551 C527 R551 C527 R551 R551 R551 R551 R551 R551 R551 R55	R530 R537 R537 R537 R537 R537 R537 R537 R537	3	PROT A SECOND	1 H1 2 H2 V10EO
	B-12 8068 5 115005 8065		653+ G	9 - (593-462) 3 - (618-88)	8 P82	783 7 ABL	H. DEF
G	R551 9532 R032	ACCOUNTS ACC	825 0 28 0 5 0 8 15 16 16 16 16 16 16 16 16 16 16 16 16 16	14 C503 25 C504 P508 C514 P508 P509 P509 P509 P509 P509 P509 P509 P509	R55501	R810  R810  R812  C827  C827	0 80 5 2 80 4 4 4 4 8 8 2 8 8 8 4 4 4 8 8 8 8 8 8 8
	1-637-020-1		R555 P	A535 R558	9127 9127 9127 9137 914 915 917 917 917 917 917 917 917 917 917 917	[P9]	

ICO01	IC	D012	C-1	
DIODE RV501 F-5 RV502 G-7 RV601 A-6 D002 D-3 D003 A-2 D005 G-1 D006 F-1 TP91 G-9 D007 A-2 D009 E-1	IC002	D272 D501 D504 D506 D508 D509 D511 D512 D513 D514 D515 D601 D602 D603 D604 D605 D606 D607 D608 D609 D610 D611 D612 D613 D614 D616 D617 D618 D619 D620 D621 D622 D623 D624 D630 D801 D802 D803 D804 D805 D806 D807 D808	D-5 G-7 E-5 F-5 G-6 E-6 E-5 E-5 E-5 E-5 E-5 E-5 E-5 E-5 E-5 E-5	
RV502 G-7 RV601 A-6 D002 D-3 D003 A-2 D005 G-1 D006 F-1 TP91 G-9 D007 A-2 D009 E-1	DIODE		en de la companya de	ritoria recomina esternia (Espainia manaminia asserta di
D003 A-2 TP  D005 G-1  D006 F-1 TP91 G-9  D007 A-2  D009 E-1				
D006 F-1 TP91 G-9 D007 A-2 D009 E-1	D003 A-2	TP		
D010 G-1 D011 G-1	D006 F-1 D007 A-2 D009 E-1 D010 G-1	TP91	G-9	

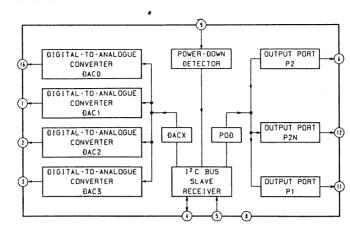
#### **B1 BOARD IC301 TDA4580-V7**



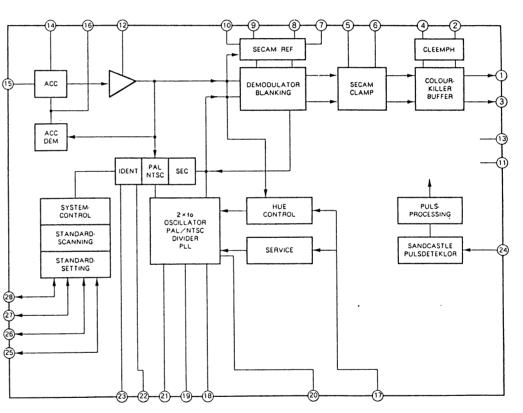
#### B1 BOARD IC303 TDA4660T



#### **B1 BOARD IC302 TDA8442-N3**



#### **B1 BOARD IC304 TDA4650WP**



Α

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E

G

- B1 Board -

tireacticosofichace c

• [2008]: pattern from the side which enables seeing.

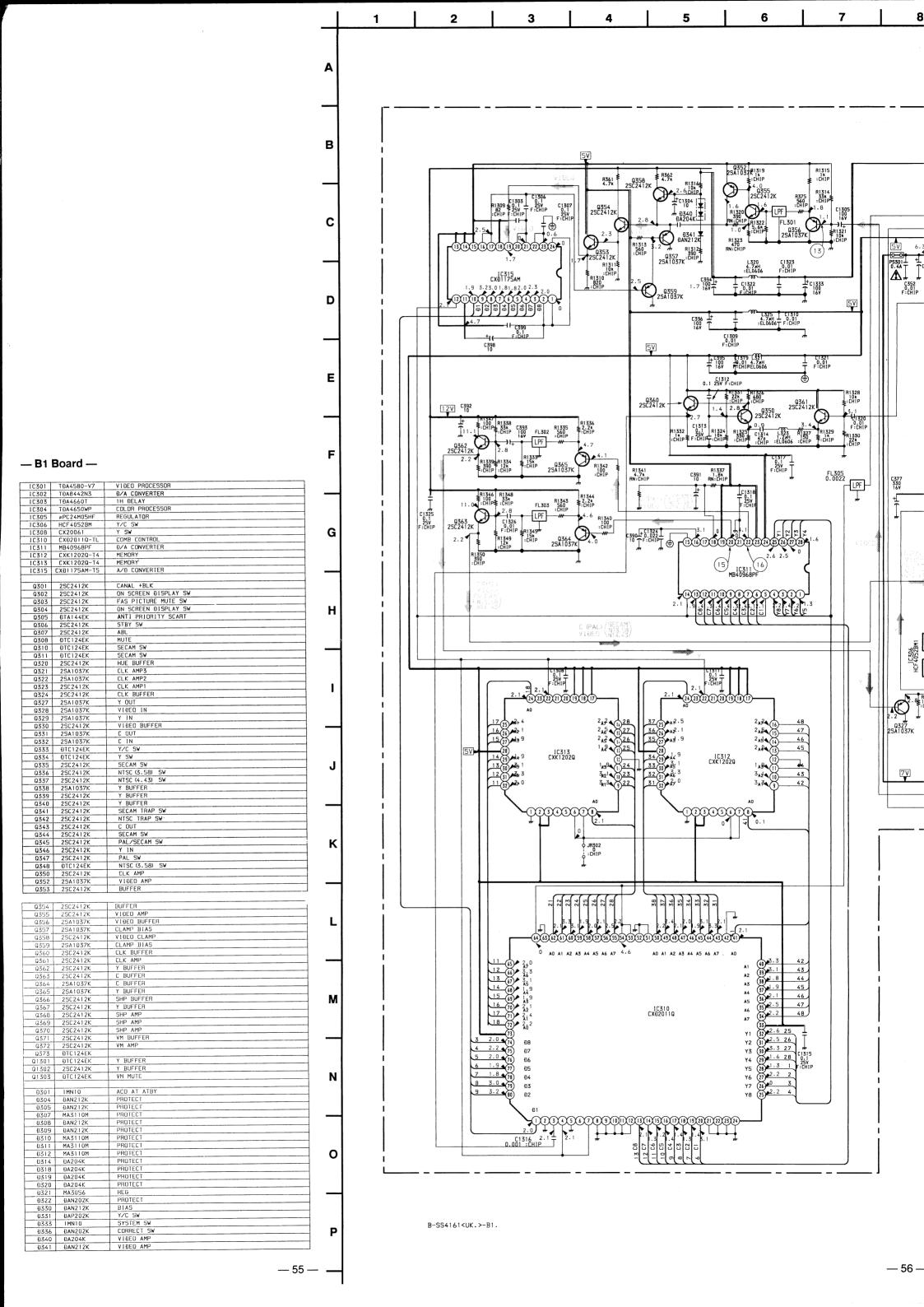
pattern of the rear side.

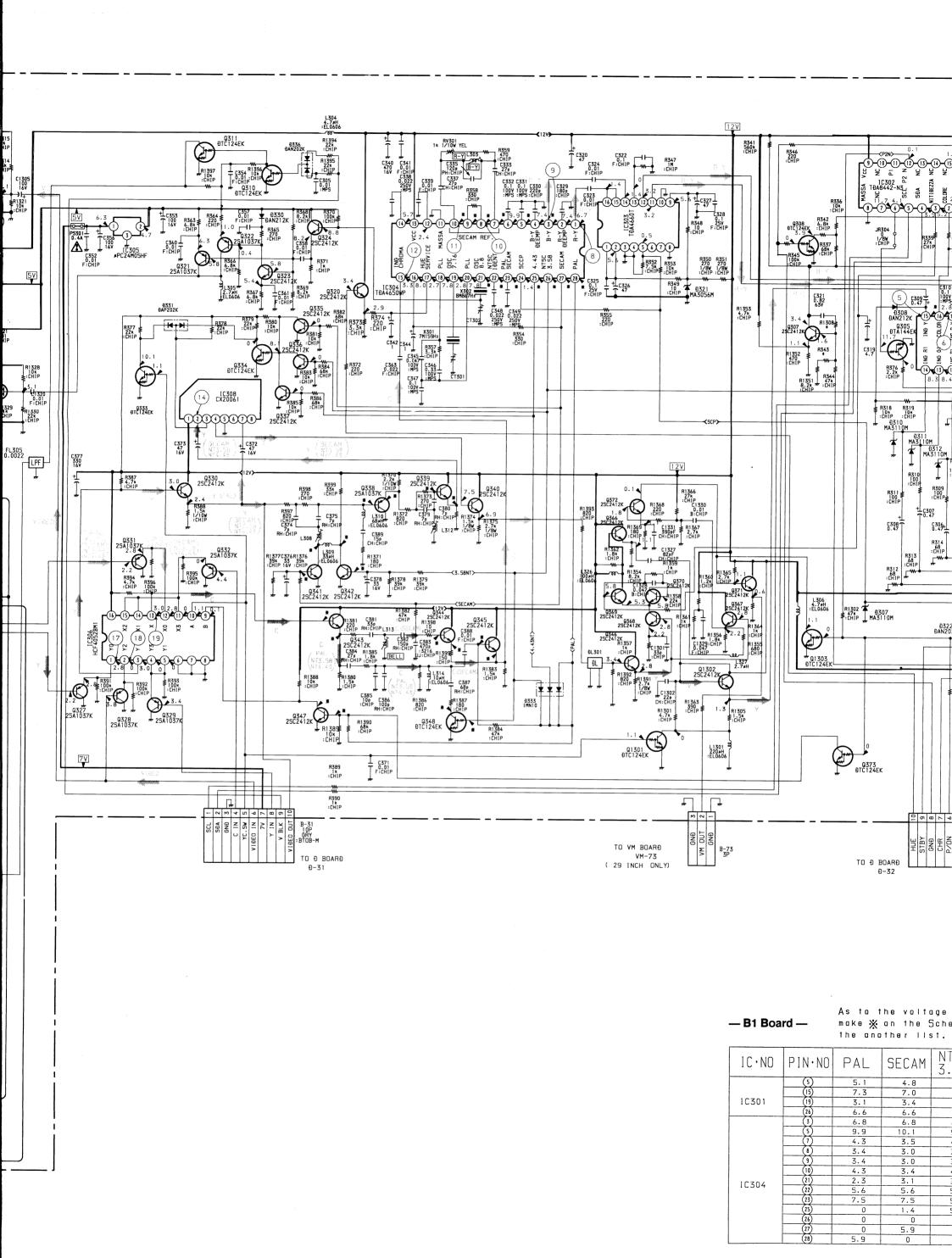
- B1 Board - CSO GRACE G

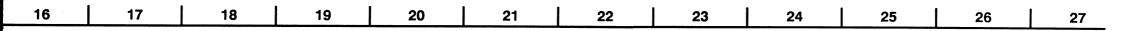
IC.

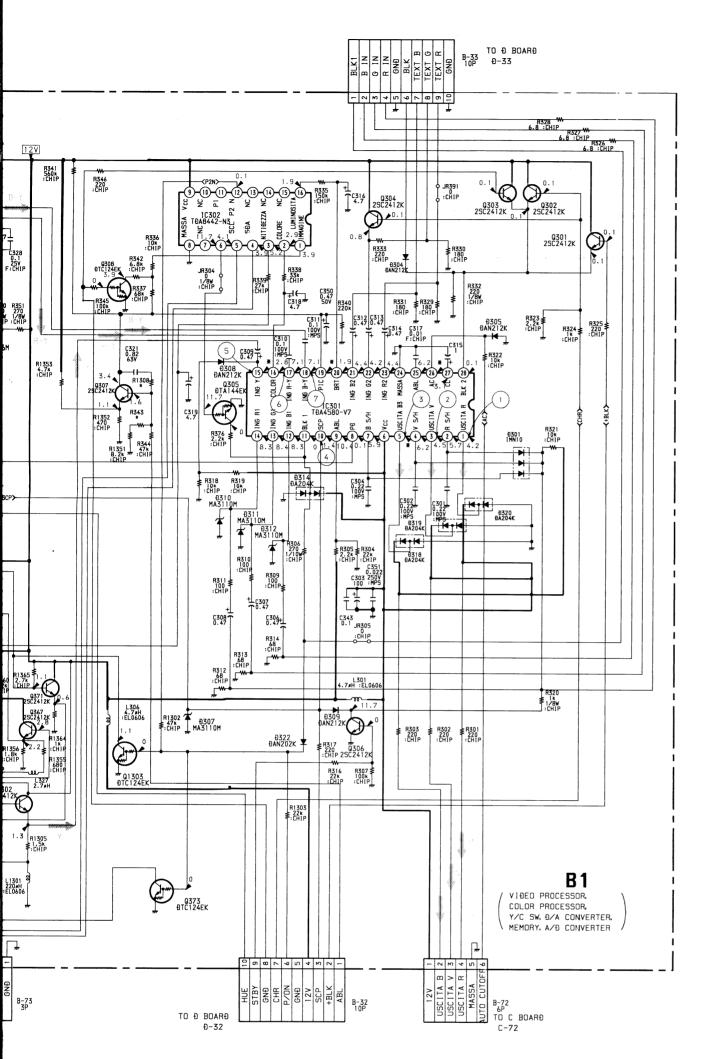
Q360 B - 3

Q361 B - 3IC301 E - 6 Q362 B - 4IC302 D-50363 B - 4C - 6IC303 Q364 A - 4IC304 C-7Q365 A-4IC305 B - 6Q366 C - 3IC306 Q367 D-6 IC308 Q368 D-6IC310 A - 6Q369 D-6IC311 A - 5Q370 D - 6IC312 A - 7Q371 D - 6IC313 A - 6 Q372 D - 6IC315 Q373 A-7E-621301 D - 2 TRANSISTOR Q1302 D-3 Q1303 E-2 Q301 0302 DIODE E-30303 E - 3Q304 F-3 D304 E - 5 Q305 D - 4D305 E-5 Q306 F-2D307 E-7Q307 D308 E-6Q308 E-3F - 7 D309 Q310 C-1D310 D - 5C - 1Q311 D311 Q320 C - 2D - 5D312 D - 5Q321 B - 2D314 0322 B - 3D-6D318 D - 6Q323 C - 2 D319 D-6 Q324 D320 0327 D - 6D321 C - 6Q328 E - 1 D322 E-2 Q329 E-1 D330 C - 6Q330 D331 E - 7Q331 D333 D-70332 0000000 D336 B - 80333 E-2B-7 D340 Q334 D - 20335 D341 B-7 D - 1Q336 C - 1C - 20337 VARIABLE Q338 D-1RESISTOR Q339 D - 2Q340 D - 2RV301 C-8 Q341 D - 100000 Q342 D - 2000000000000000000 Q343 E-1TRIMMER 00000 Q344 D - 1Q345 D-1CT301 C-6 Q346 D - 2CT302 C-6 . . . . . . . . . . . . Q347 E-1 Q348 D - 2COIL Q350 B - 3Q352 B - 1 L303 C-8 Q353 A-1L308 D - 8Q354 B - 1L312 D - 7Q355 B - 2L313 D-8 Q356 C - 1Q357 B - 1Q358 B - 1Q359 B - 1









As to the voltage volue shown by the — B1 Board make 🔆 on the Schematic Điagram, see

the another ilst.						
IC·NO	PIN·NO	PAL	SECAM	NTSC 3.38	NTSC 4.43	
	(5)	5.1	4.8	4.8	4.8	
	(15)	7.3	7.0	7.0	7.0	
IC301	(19)	3.1	3.4	3.8	3.4	
	(26)	6.6	6.6	6.0	6.3	
	(3)	6.8	6.8	6.9	6.8	
	(5)	9.9	10.1	9.9	9.9	
	(7)	4.3	3.5	4.6	4.6	
	(8)	3.4	3.0	3.4	3.4	
	(9)	3.4	3.0	3.4	3.4	
	(10)	4.3	3.4	4.6	4.6	
IC304	(21)	2.3	3.1	3.1	2.3	
10304	(22)	5.6	5.6	5.6	7.4	
	(23)	7.5	7.5	5.7	5.7	
	(25)	0	1.4	5.9	5.9	
	(26)	0	0	0	0	
	(27)	00	5.9	0	0	
	(28)	5.9	0	n	0	

Q·NO		PAL	SECAM	NTSC 3.38	NTSC
					4.43
Q338	В	2.6	3.9	3.9	3.9
4000	Ε	3.3	4.6	4.6	4.6
Q339	В	3.2	4.6	4.6	4.6
4333	Ε	3.6	3.9	3.9	3.9
Q341	В	0	0.6	0.4	0.1
W341	С	11.8	0	11.6	11.6
Q342	В	0	0	0.4	0
W34Z	С	11.7	0	11.7	11.7
07/7	В	3.2	5.3	5.3	5.3
Q343	E	2.6	4.6	4.7	4.7
Q344	В	0	5.4	1.0	0.1
U344	E	4.0	4.8	1.5	4.5
Q345	В	4.6	0.1	1.9	5.0
W343	E	4.0	4.4	1.4	4.4
07/7	В	0.6	0	0	0
Q347	C	0.1	11.9	11.9	11.9
07/0	В	0.1	0.1	1.0	0.1
Q348	С	0.4	0.2	0.2	0.4

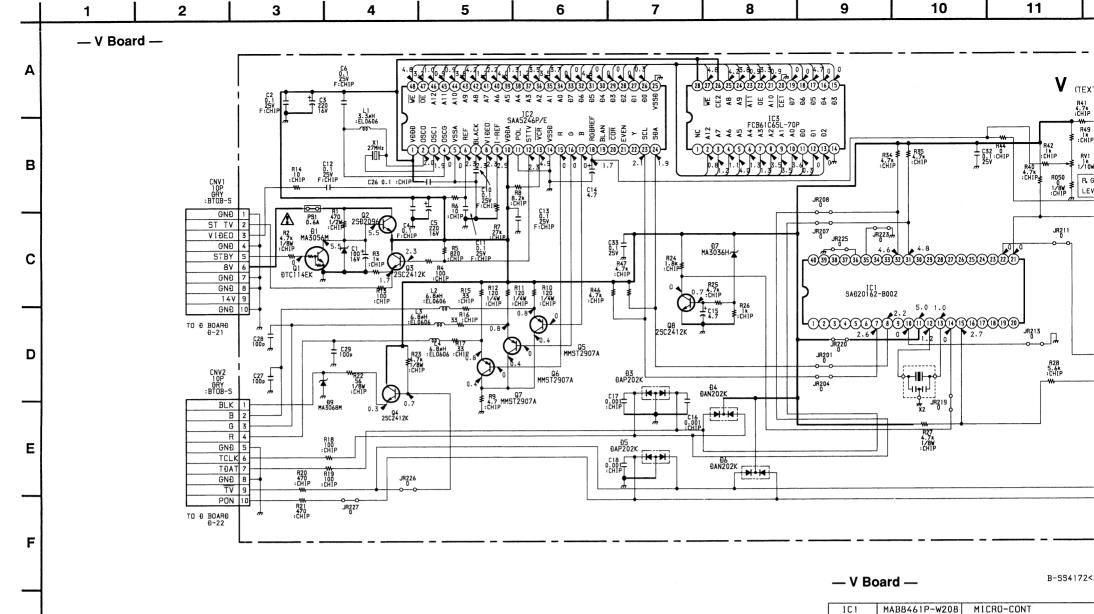
#### - B1 Board -

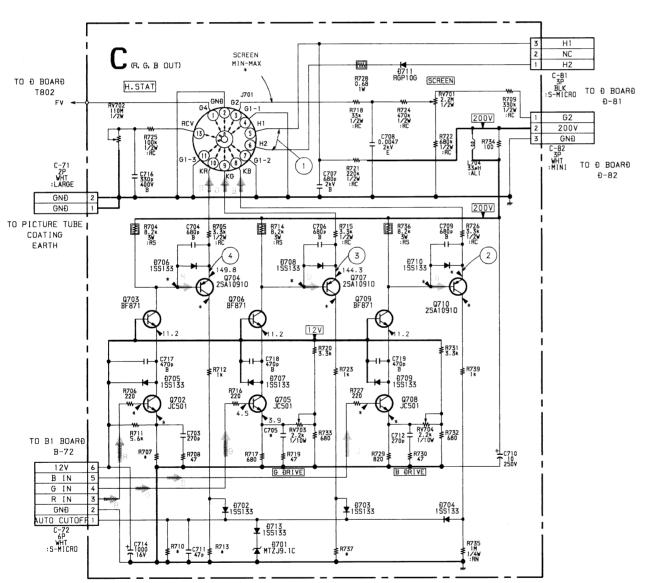
— B1 Board —		
(1) PAL	(1) SECAM	1) NTSC3.58/ NTSC4.43
	1 mm r	י וות
5.4Vp-p ( H )	4.8Vp-p ( H )	]
(2) PAL	2 SECAM	NTSC3.58/
	PHM   P	(2) NTSC4.43
	ויין ייין	ماليالسيليال
5.4Vp-p (H)	4.8 Vp-p (H)	5.6Vp-p ( H )
(3)	(3) SELAM	3 NTSC3.58/ NTSC4.43
տ [խտմ խտմ խո	Նյսսու	<del>╷╸┩┩╢</del> ╌ <del>┍╏</del> ╢
5.4Vp-p ( H)	5.0Vp-p (H)	6.2Vp-p ( H )
4	(5) PAL	(5) SECAM
/\/\_	A James	A James
10.5Vp-p ( H)	.О.4Vp-р ( Н)	0.3Vp-p ( H)
5 NTSC3.58/	6 PAL/SECAM	6 NTSC3.58/
Jane	1/1-1/1-1/1-	-7] L7] L7] L
0.6Vp-p (H)	1.1Vp-p ( H)	1.2Vp-p (H)
7 PAL/SECAM	7 NTSC3.58/ NTSC4.43	8 PAL
	ے دسسے ت	7-7-1-
1.4Vp-p ( H)		0.4Vp-p(H)
8 SECAM	8) NTSC3.58/ NTSC4.43	9 PAL
1 - n - n -	~\ \_\\ \ \_\\\ \\ \\ \\ \\ \\ \\ \\ \\ \	
1.0Vp-p (H)		0.7Vp-p(H)
9 SECAM	9) NTSC3.58/ NTSC4.43	(10) SECAM
	Januara M. Jan	14 14
		Jersen Park
1.4Vp-p ( H )	0.85Vp-p(H)	0.2Vp-p ( H )
(1) SECAN	(12) PAL plants of	(12) SECAM
		34MARKA14E
1.2Vp-p (H)	0.16Vp-p ( H )	0.2Vp-p ( H )
(12) NTSC4.43	(13)	(13)
344 <b>486</b> 44E	1,1,	والمجاوبين وأمارق
0.3Vp-p(H)	1.0Vp-p ( H )	0.8Vp-p ( H)
13 NTSC3.58	13 NTSC4.43	14) PAL
1/1/I	1,	Married Married
0.9Vp-p ( H)	0.95Vp-p ( H)	0.8Vp-p ( H)
14) SECAM	14) NTSC3.58	14) NTSC4.43
A many	Series Comments	and broad broad broad
0.7Vp-p ( H)	0.6Vp-p ( H)	0.8Vp-p ( H)
15) PAL	15 SECAM NTSC3.58/ NTSC4.43	16)
BO OF STREET		Showing
0.7Vp-p ( H )	0.5Vp-p ( H)	0.9 Vp-p (H)
(17) PAL	17 SECAM NTSC3.58 NTSC4.43	(18) PAL
J. Johnson	NTSC4.43	- Allendaria de la companya de la co
1.9Vp-p(H)	0.1Vp-p ( H)	0.2Vp-p ( H)
(18) SECAM	(19) PAL	(19) SECAM
	The second secon	
10 8 V2 = 2 ( U )		0 8 / 2 - 2 ( H /
0.8Vp-p (H)	0.6Vp-p ( H )	0.8Vp-p ( H)
0.8Vp-p (H)  19 NTSC3.58/ NTSC4.43		<b>м</b> у му 0.8Vp−p ( H)

## 0.9Vp-p ( H)

### — B1 BOARD \* MARK —

	KV-A2121Đ	KV-A2521Đ	KV-A2921Đ
B-73	OPEN	OPEN	3P
R343	220 1/10W	270 1/10W	1.2K 1/10W
R1308	0 1/10W	0 1/10W	4.7K 1/10W





101	MAB8461P-W208	MICRO-CONT
1C2	SAA5246E	IVT
103	FCB61C65L-70P	STATIC-RAM
Q1	ÐTC114EK	STAND BY
Q2	2SÐ2096	5V REG
Q3	25C2412K	SYNC BUFFER
Q4	25C2412K	BLK OUT
Q5	MMST2907A	B OUT
Q6	MMST2907A	G DUT
Q7	MMST2907A	R OUT
Q8	25C2412K	P ON SW
Ð1	MA3056M	5V REG
Đ3	ĐAP202K	PROTECT
Đ4	ĐAN202K	PROTECT
Ð5	ĐAP202K	PROTECT
Ð6	ĐAN202K	PROTECT
Đ7	MA3036H	PROTECT
Đ9	MA3068M	PROTECT

## — C Board —

0702	JC501	R ÐRIVE
Q703	BF871	R OUT
Q704	2SA10910	ACO MEASURING
0705	JC501	G DRIVE
0706	BF871	G OUT
Q707	2SA10910	ACO MEASURING
Q708	JC501	B ÐRIVE
Q709	BF871	B OUT
Q710	25A10910	ACO MEASURING
Đ701	MTZJ9.1C	PROTECT
Ð702	155133	PROTECT
Đ703	155133	PROTECT
Ð704	155133	PROTECT
Ð705	155133	PROTECT
Đ706	155133	PROTECT
Đ707	155133	PROTECT
Đ708	155133	PROTECT
Đ709	155133	PROTECT
Đ710	155133	PROTECT
Đ711	RGP10G	HEATING VOLTAGE REC
Đ713	155133	PROTECT

## --- C Board ---

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	2
	ywwyr
22 Vp-p (H )	90 Vp-p (H )
3	4
J.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
100Vp-p (H)	120Vp-p (H )

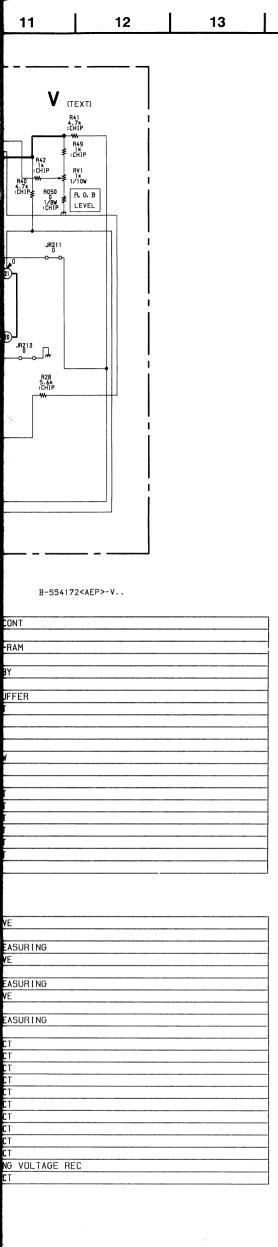
— C Board —

As to the voltage value shown by the make  $\pmb{\times}$  on the Schematic Diagram, see the another list.

the another list.						
		KV-A2121Đ	KV-A2521Đ	KV-A2921Đ		
Q702	В	3.8	4	. 2		
G/ 02	Ε	3.2	3	. 6		
Q703	С	153.8	145	5.8		
	В	153.8	145	5.8		
Q704	С	4.7	5	. 3		
	E	149.8	138	3.9		
Q706	С	149.0	145.5			
	В	149.0	145.5			
Q707	С	4.9	6.0			
	E	144.3	141.6			
Q708	В	5.1	4	. 7		
4700	_ E	4.5	4	. 1		
Q709	С	151.0	13	1.5		
	В	151.0	13	1.5		
Q710	С	6.7	7.2			
	Ε	145.8	120	5.9		
SCREEN	MIN	170.9	21	01		
JUNEEN	MAX	907	9:	26		

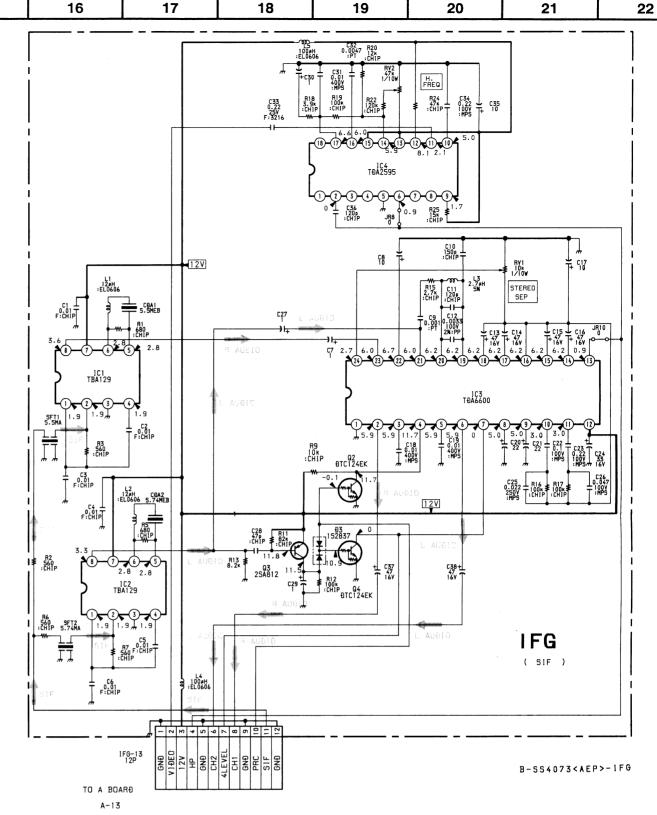
## — C BOARD \* MARK —

	KV-A2121Đ	KV-A2521Đ
C705	180P	220P
R707	430	390
R710	100K 1/4W 1%	68K 1/4W 1%
R713	160K 1/4W 1%	120K 1/4W 1%
R737	390K 1/4W 1%	820K 1/4W 1%



14

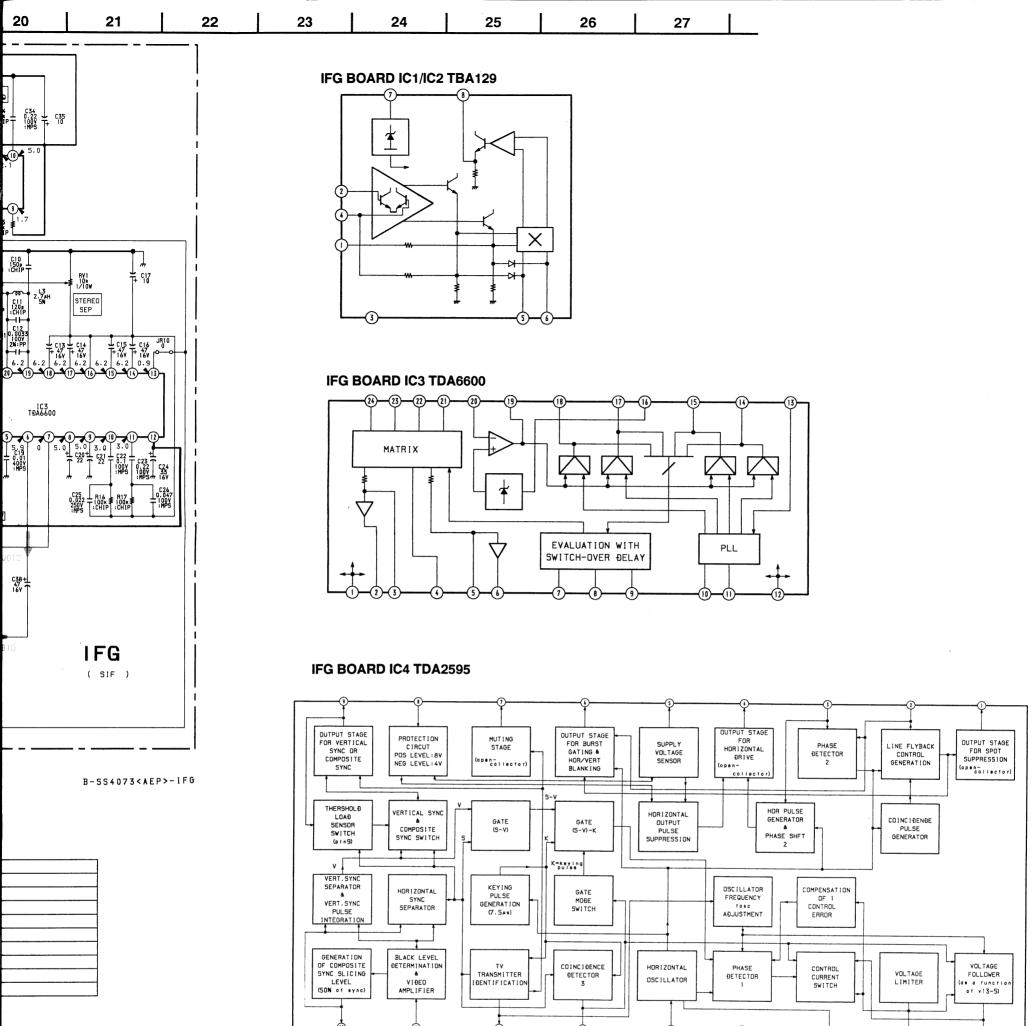
15



## - IFG Board -

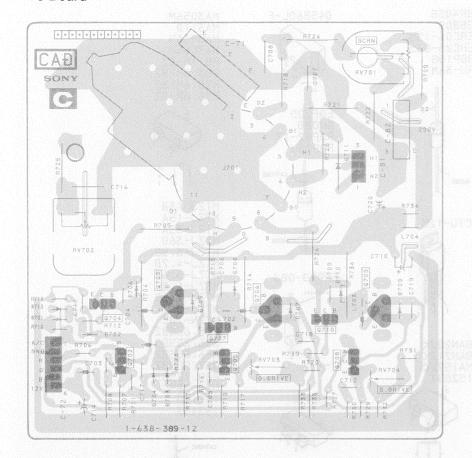
IC1	TBA129	5.5 ĐET
IC2	TBA129	5.74ĐET
IC3	0033AGT	SIF ĐET AMP
IC4	TĐA2595	H.FREQ AMP
Q2	ÐTC124EK	SW
Q3	2SA812	SW
Q4	ÐTC124EK	SW
Ð3	152837	SW

KV-A2921Ð 220P 390

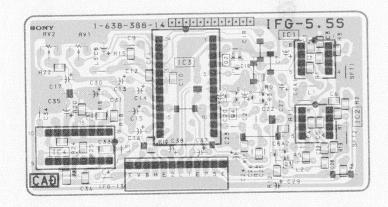




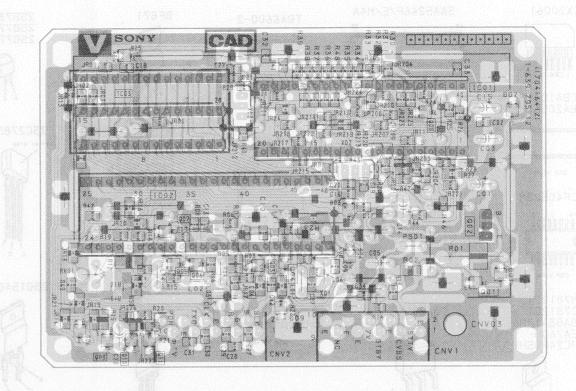
— C Board —



#### — IFG Board —

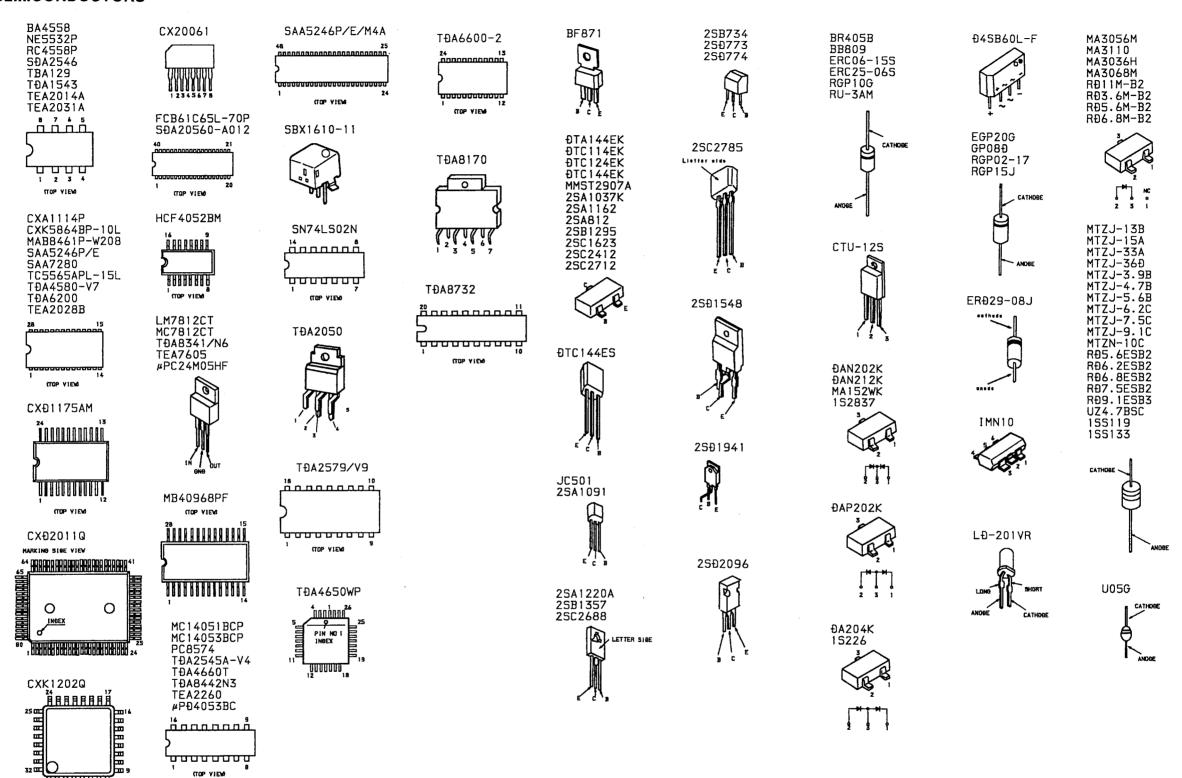






- pattern from the side which enables seeing.
- pattern of the rear side.

#### 5-4. SEMICONDUCTORS



COP VIEW

# SECTION 6 EXPLODED VIEWS

#### NOTE:

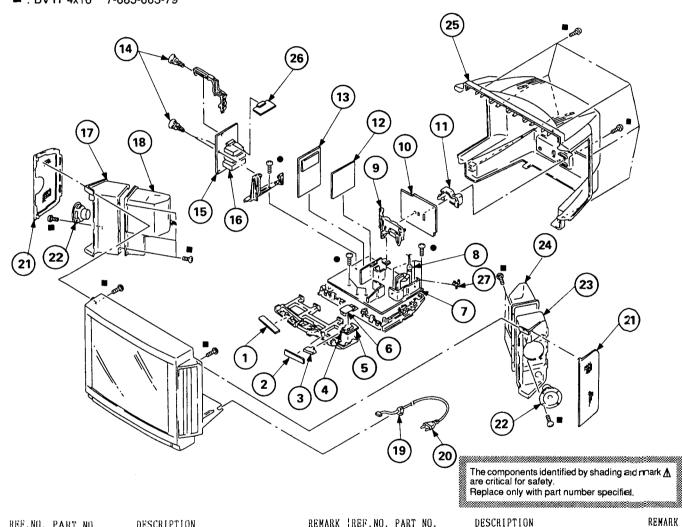
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these

The components identified by shading and mark  $\Delta$  are critical for safety.

Replace only with part number specified.

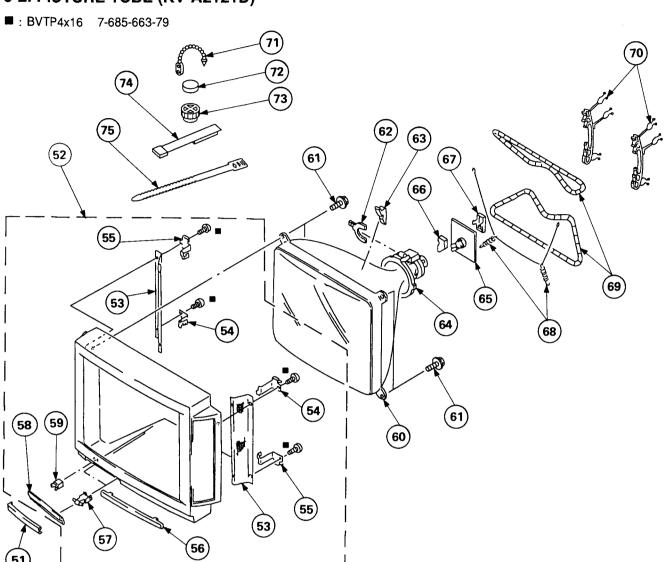
## 6-1. CHASSIS (KV-A2121D)

●: BVTP3x12 7-685-648-79 ■: BVTP4x16 7-685-663-79



REMARK | REF. NO. PART NO. DESCRIPTION REF.NO. PART NO. DESCRIPTION A BOARD, COMPLETE
TUNER, ET (UV-816 (PLL))
BOARD (LEFT), BAFFLE
BOX (LEFT), SPEAKER
HOLDER, AC CORD
CORD, POWER (WITH NOISE FILTEN
GRILLE ASSY, SPEAKER
SPRAKER \*A-1632-022-A \*1-638-391-11 1052 022 1 1052 022 1 4-031-056-01 4-031-057-01 \*1-638-392-11 4-031-044-01 H2 BOARD BUTTON, POWER SWITCH, PUSH (AC POWER) 4-031-044-01 A.1-571-433-12 \*1-638-390-11 4-200-757-01 \*A-1642-035-A \*4-031-057-01 Å. 4-389-201-03 Å. 1-590-501-11 X-4029-448-1 1-544-475-11 \*4-031-055-01 \*4-031-055-01 \*A-1654-004-A SWITCH, 105H (AC 10WER)
F BOARD
COVER, POWER SWITCH
D BOARD, COMPLETE
TRANSFORMER ASSY, FLYBACK (UX-1650) 19 20 21 22 23 24 25 26 GRILLE ASSI, SPEAKER
SPEAKER
BOARD (RIGHT), BAFFLE
BOX (RIGHT), SPEAKER
COVER, REAR
IFG BOARD, COMPLETE
HOLDER, WIRE A.1-439-416-51 BRACKET, J
J1 BOARD, COMPLETE
BRACKET, TERMINAL
V BOARD, COMPLETE
B1 BOARD, COMPLETE
RIVET, T TYPE \*4-386-624-11 -1651-018-A 11 4-200-014-01 j2 \*A-1654-004-A \*A-1645-013-A \*3-646-071-00 13 \*A- 1621-042-A 4-386-618-01

## 6-2. PICTURE TUBE (KV-A2121D)

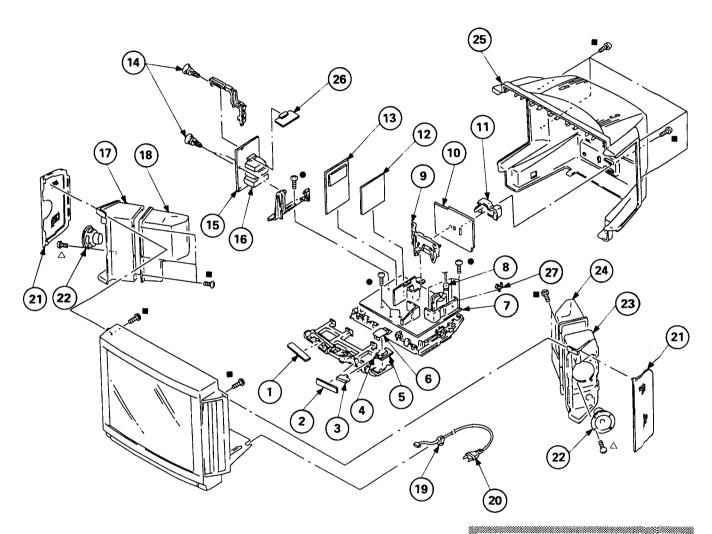


The components identified by shading and mark  $\Lambda$  are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK
51 52 53 54 55 57 58 59 60 61 62 63	4-031-047-01 4-031-045-01 4-031-046-01 4-031-051-01 3-703-035-11 4-031-049-01 4-392-036-01	ORNAMENT, DOOR CABINET ASSY (WITH BEZEL ASSY) GRILLE, FRONT BRACKET (A), SPEAKER BRACKET (B), SPEAKER WINDOW, ORNAMENTAL SHAFT, LID DOOR CATCHER, PUSH PICTURE TUBE (A51JXH61X) SCREW (S), PT MAGNET, BMC SPACER, DY	53~59		DEFLECTION YOKE (Y21PFA2) C BOARD, COMPLETE COVER (MAIN), CV COVER (REAR LID), CV SPRING, EXTENSION COIL, DEMAGNETIZATION BAND, DGC CLIP, LEAD WIRE MAGNET, DISK; 10MM \$ MAGNET, ROTATABLE DISK; 15MM \$ PERMALLOY ASSY, CONVERGENCE BAND, BINDING	

## 6-3. CHASSIS (KV-A2521D/A2921D)

●: BVTP3x12 7-685-648-79■: BVTP4x16 7-685-663-79∆: BVTP4x12 7-685-661-79

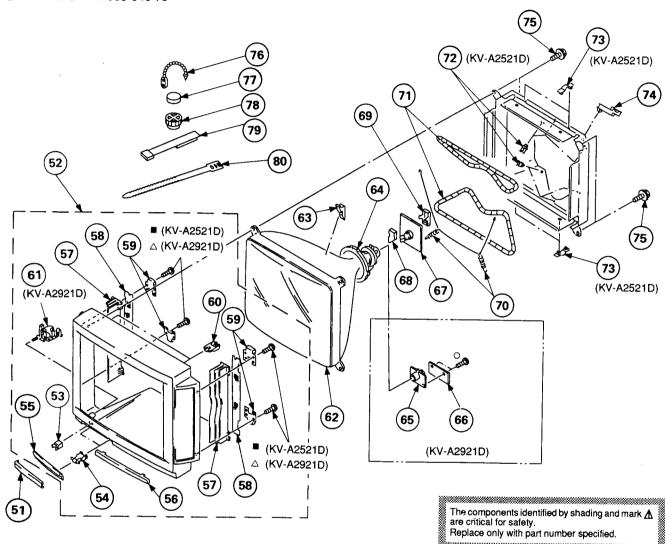


The components identified by shading and mark ∆ are critical for safety. Replace only with part number specifie⊲

1 *1-638-391-11 H1 BOARD 2 *1-638-392-11 H2 BOARD 3 4-031-044-01 BUTTON, POWER 4 \(\triangle 1.571-433-12 \) SWITCH, PUSH (AC POWER) 5 *1-638-390-11 F BOARD 6 4-200-757-01 COVER, POWER SWITCH 7 **A-1642-031-A D BOARD, COMPLETE (KV-A2521D) **A-1642-031-A D BOARD, COMPLETE (KV-A2521D) **A-1642-031-BRACKET, J 8 \(\triangle 1.1-439-416-51 \) TRANSFORMER ASSY, FLYBACK (UX-1650) 9 *4-386-624-11 BRACKET, J 10 **A-1651-018-A J1 BOARD, COMPLETE (KV-A2521D) **A-1651-020-A J1 BOARD, COMPLETE (KV-A2521D) 11 4-200-014-01 BRACKET, TERMINAL  14 4-386-618-01 RIVET, T TYPE 15 **A-1632-022-A A BOARD, COMPLETE 16 \(\triangle 1465-301-11 \) TUNER, ET (UV-816(PLL)) 17 **A-1632-095-01 BOARD (LEFT), BAFFLE 18 **4-031-102-01 BOX (LEFT), SPEAKER 19 \(\triangle 3.4-389-201-03 \) HOLDER, AC CORD 20 \(\triangle 3.1-590-501-11 \) CORD, POWER (WITH NOISE FILTENGE) 21 \(\triangle X-4029-440-1 \) GRILLE ASSY, SPEAKER 22 \(\triangle 1544-475-11 \) SPEAKER 23 **4-031-094-01 BOARD (RIGHT), BAFFLE 24 **4-031-101-01 BOX (RIGHT), SPEAKER 25 **4-031-100-01 COVER, REAR (KV-A2521D) 26 **4-031-100-01 COVER, REAR (KV-A2521D) 27 **4-032-133-01 COVER, REAR (KV-A2521D) 28 **4-031-100-01 COVER, REAR (KV-A2521D) 29 **4-031-100-01 COVER, REAR (KV-A2521D) 20 **4-031-100-01 COVER, REAR (KV-A2521D) 21 **4-031-100-01 COVER, REAR (KV-A2521D) 22 **4-031-100-01 COVER, REAR (KV-A2521D)	REF.NO. PART NO.	DESCRIPTION REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK
12 *A-1645-013-A V BOARD, COMPLETE 13 *A-1621-030-A B1 BOARD, COMPLETE (KV-A2521D) 26 *A-1654-004-A IFG BOARD, COMPLETE 27 *3-646-071-00 HOLDER, WIRE 28 *A-1621-031-A B1 BOARD, COMPLETE (KV-A2921D)	2 *1-638-392-11 3 4-031-044-01 4 \( \tilde{\Delta} \) .1-571-433-12 5 *1-638-390-11 6 4-200-757-01 7 *A-1642-031-A	H2 BOARD BUTTON, POWER SWITCH, PUSH (AC POWER) F BOARD COVER, POWER SWITCH D BOARD, COMPLETE (KV-A2521D) D BOARD, COMPLETE (KV-A2921D) TRANSFORMER ASSY, FLYBACK (UX-1650) BRACKET, J J1 BOARD, COMPLETE (KV-A2521D) J1 BOARD, COMPLETE (KV-A2921D) BRACKET, TERMINAL V BOARD, COMPLETE BI BOARD, COMPLETE	15 *A-1632-022-A 16 A .1-465-301-11 17 *4-031-095-01 18 *4-031-102-01 19 A .4-389-201-03 20 A .1-590-501-11 21 X-4029-440-1 22 1-544-475-11 23 *4-031-094-01 24 *4-031-101-01 25 4-031-100-01 4-032-133-01 26 *A-1654-004-A	A BOARD, COMPLETE TUNER, ET (UV-816(PLL)) BOARD (LEFT), BAFFLE BOX (LEFT), SPEAKER HOLDER, AC CORD CORD, POWER (WITH NOISE FILTEN GRILLE ASSY, SPEAKER SPEAKER BOARD (RIGHT), BAFFLE BOX (RIGHT), SPEAKER COVER, REAR (KV-A2521D) COVER, REAR (KV-A2921D) IFG BOARD, COMPLETE	

## 6-4. PICTURE TUBE (KV-A2521D/A2921D)

■: BVTP4x16 7-685-663-79 Δ: BVTP4x12 7-685-661-79 O: BVTP3x8 7-685-646-79



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK
51 52 53 54 55 56 57 58	4-031-050-01 4-032-135-01 X-4029-439-1 X-4029-713-1 4-392-036-01 3-703-035-11 4-031-049-01 4-032-134-01 4-031-097-01 4-031-098-01 4-031-090-01 4-031-090-01 4-031-090-01 4-031-088-01	ORNAMENT, DOOR (KV-A2521D) ORNAMENT, DOOR (KV-A2921D) CABINET ASSY (WITH BEZEL ASSY)  CABINET ASSY (WITH BEZEL ASSY)  CATCHER, PUSH SHAFT, LID DOOR (KV-A2521D) DOOR (KV-A2921D) PLATE, ORNAMENTAL (KV-A2521D) WINDOW, ORNAMENTAL (KV-A2921D) FIN, ACOUSTIC (KV-A2921D) FIN, ACOUSTIC (KV-A2921D) GRILLE, FRONT (KV-A2921D) GRILLE, FRONT (KV-A2921D) BRACKET, SPEAKER	REMARK  53~60 -A2521D) 53~61 -A2921D)	64 \( \Delta \. 1 - 451 - 311 - 21 \) 65 \( \Delta \. 1 - 452 - 509 - 42 \) 66 \( \psi \. 1 - 452 - 509 - 42 \) 66 \( \psi \. 1 - 452 - 509 - 42 \) 67 \( \psi \. A - 1638 - 011 - A \) 68 \( \psi A - 1638 - 013 - A \) 68 \( \psi A - 379 - 167 - 01 \) 69 \( \psi A - 379 - 160 - 01 \) 70 \( \psi - 303 - 774 - 99 \) 4 \( \psi - 303 - 774 - 99 \) 71 \( \Delta \. 1 - 426 - 535 - 11 \) 72 \( \psi - 1034 - 296 - 01 \) 73 \( \psi A - 385 - 916 - 01 \) 74 \( \psi A - 387 - 284 - 01 \) 75 \( \psi - 036 - 188 - 01 \) 76 \( \psi - 036 - 188 - 01 \) 77 \( \psi - 036 - 188 - 01 \) 78 \( \psi - 036 - 188 - 01 \) 79 \( \psi - 036 - 188 - 01 \) 70 \( \psi - 036 - 188 - 01 \) 71 \( \psi - 036 - 188 - 01 \) 72 \( \psi - 036 - 188 - 01 \) 73 \( \psi - 036 - 188 - 01 \) 74 \( \psi - 036 - 188 - 01 \) 75 \( \psi - 036 - 188 - 01 \) 75 \( \psi - 036 - 188 - 01 \) 76 \( \psi - 036 - 188 - 01 \) 77 \( \psi - 036 - 188 - 01 \) 78 \( \psi - 036 - 188 - 01 \) 79 \( \psi - 036 - 188 - 01 \) 70 \( \psi - 036 - 188 - 01 \) 71 \( \psi - 036 - 188 - 01 \) 71 \( \psi - 036 - 188 - 01 \) 72 \( \psi - 036 - 188 - 01 \) 73 \( \psi - 036 - 188 - 01 \) 74 \( \psi - 036 - 188 - 01 \) 75 \( \psi - 036 - 188 - 01 \) 75 \( \psi - 036 - 188 - 01 \) 76 \( \psi - 036 - 188 - 01 \) 77 \( \psi - 036 - 188 - 01 \) 78 \( \psi - 036 - 188 - 01 \) 79 \( \psi - 036 - 188 - 01 \) 70 \( \psi - 036 - 188 - 01 \) 71 \( \psi - 036 - 188 - 01 \) 71 \( \psi - 036 - 188 - 01 \) 72 \( \psi - 036 - 188 - 01 \) 73 \( \psi - 036 - 188 - 01 \) 74 \( \psi - 036 - 188 - 01 \)	DEFLECTION YOKE (Y25FXA) (KV-DEFLECTION YOKE (Y29FXA) (KV-DEFLECTION YOKE (Y29FXA) (KV-NECK ASSY, PICTURE TUBE (NA-30 VM BOARD (KV-A2921D) COMPLETE (KV-A2521D) COVER (NAIN), CV COVER (NAIN), CV SPRING (KV-A2521D) SPRING, TENSION (KV-A2921D) COIL, DEGAUSS (KV-A2521D) COIL, DEGAUSS (KV-A2521D) HOLDER, DGC (KV-A2521D) HOLDER (D) (KV-A2521D) HOLDER, LEAD	A2521D)
61 62 A.	8-733-231-05		:1D) :1D)	76 4-308-870-00 77 1-452-032-00 78 1-452-094-00 79 X-4387-214-1 80 3-701-007-00	CLIP, LEAD WIRE MAGNET, DISK; 10MM Ø MAGNET, ROTATABLE DISK; 15MM Ø PERMALLOY ASSY. CORRECTION	b

## **SECTION 7 ELECTRICAL PARTS LIST**

NOTE:

The components identified by shading and mark ▲ are critical for safety.
Replace only with part number specified.

Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

CAPACITORS

COILS

All variable and adjustable resistors have

MF: μF, PF: μμF

MMH: mH, UH: μH

#### RESISTORS

- All resistors are in ohms F: nonflammable

REF.NO	. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1621-042-A			C338 C339	1-137-102-11 1-163-031-11	FILM CERAMIC CHIP	0.022MF	10%	250V 50V
	*A-1621-030-A	BI BOARD, COMPLETE (KV-A2121D) ***************** BI BOARD, COMPLETE (KV-A2521D) ************************************		C340 C341	1-126-103-11 1-163-031-11	ELECT	470MF	20%	16V 50V
	*A-1621-031-A	B1 BOARD, COMPLETE (KV-A2921D)		C342	1-124-903-11	ELECT	1MF	20%	50 <b>v</b>
831	<con *1-565~393-11</con 	NECTOR>		C343 C344 C345 C346 C347	1-163-038-00 1-124-903-11 1-137-094-11 1-137-033-11 1-137-098-11	CERAMIC CHIP ELECT FILM FILM FILM	0.1MF 1MF 0.047MF 0.33MF 0.1MF	20% 10% 10% 10%	25V 50V 100V 100V 100V
B32 B33 B72 B73	*1-565-393-11 *1-565-393-11 *1-568-881-51 *1-568-878-51	CONNECTOR, BOARD TO BOARD CONNECTOR, BOARD TO BOARD PIN, CONNECTOR 6P PIN, CONNECTOR 3P		C348 C349 C350 C351 C352	1-137-102-11		0.022MF 0.022MF 0.47MF 0.022MF	10% 10% 20% 10%	250V 250V 50V 250V 50V
4201		ACITOR>	1004	C353	1-126-101-11	ELECT	100MF	20%	16V
C301 C302 C303 C304	1-137-031-11 1-137-031-11 1-124-122-11 1-137-031-11	FILM 0.22MF 10% FILM 0.22MF 10% BLBCT 100MF 20% FILM 0.22MF 10%	100V 100V 50V 100V	C354 C356 C357 C358	1-163-031-11 1-126-101-11 1-163-031-11 1-163-031-11	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP	100MF 0.01MF	20%	50V 16V 50V 50V
C305 C306	1-164-232-11	CERAMIC CHIP 0.01MF 10% ELECT 0.47MF 20%	50V 50V	C360 C361	1-163-031-11 1-163-031-11	CERAMIC CHIP CERAMIC CHIP	0.01MF		50V 50V
C307 C308 C309 C310	1-124-902-00 1-124-902-00 1-124-902-00 1-124-902-00 1-137-098-11	ELECT         0.47MF         20%           ELECT         0.47MF         20%           ELECT         0.47MF         20%	50V 50V 50V 100V	C363 C371 C372	1-163-033-00 1-163-031-11 1-124-477-11	CERAMIC CHIP CERAMIC CHIP ELECT	0.022MF	20%	50V 50V 16V
C311	1-137-098-11	FILM 0.1MF 10% FILM 0.1MF 10%	1007	C373 C374	1-124-477-11 1-163-090-00	ELECT CERAMIC CHIP	47MF 7PF	20% 0.25PF	16V 50V
C312 C313 C314 C315	1-124-902-00 1-124-902-00 1-124-902-00 1-124-903-11	ELECT 0.47MF 20% BLECT 0.47MF 20% ELECT 0.47MF 20% BLECT 1MF 20%	50V 50V 50V 50V	C375 C376 C377	1-163-090-00 1-124-034-51 1-124-119-00	CERAMIC CHIP ELECT ELECT	7PF 33MF 330MF	0.25PF 20% 20%	50V 16V 16V
C316	1-124-927-11	ELECT 4.7MF 20%	50V	C378 C379	1-124-034-51 1-163-090-00	ELECT CERAMIC CHIP	33MF 7PF	20% 0.25PF	16V 50V
C317 C318 C319 C320	1-163-031-11 1-124-927-11 1-124-927-11 1-124-910-11	CERAMIC CHIP 0.01MF ELECT 4.7MF 20% ELECT 4.7MF 20% ELECT 47MF 20%	50V 50V 50V 50V	C380 C381 C382	1-163-090-00 1-163-105-00 1-163-121-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	7PF 33PF	0.25P) 5% 5%	50V 50V 50V
C321	1-137-027-11	FILM 0.82MF 10%	63V	C383 C384	1-163-197-00 1-163-103-00	CERAMIC CHIP CERAMIC CHIP	27PF	5% 5%	50V 50V
C322 C323 C324 C325	1-163-077-00 1-163-031-11 1-163-031-11 1-163-038-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.1MF	50V 50V 50V 25V	C385 C386 C387	1-163-093-00 1-163-377-11 1-163-113-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	100PF 68PF	5% 5% 5%	50V 50V 50V
C326	1-124-910-11	ELECT 47MF 20%	50 <b>V</b>	C388 C389	1-163-031-11 1-163-097-00	CERAMIC CHIP	15PF	5%	50V 50V
C327 C328 C329 C330	1-124-910-11 1-163-038-00 1-163-123-00 1-163-125-00	ELECT 47MF 20% CERANIC CHIP 0.1MF CERANIC CHIP 180PF 5% CERANIC CHIP 220PF 5%	50V 25V 50V 50V	C390 C391 C392	1-124-907-11 1-124-907-11 1-124-907-11	ELECT ELECT ELECT	10MF 10MF 10MF	20% 20% 20%	50V 50V 50V
C331	1-137-098-11	FILM 0.1MF 10%	100 <b>V</b>	C393 C394	1-126-101-11 1-126-101-11	ELECT ELECT	100MF 100MF	20% 20%	<b>1</b> 6V 16V
C332 C333 C335 C337	1-137-098-11 1-163-237-11 1-163-119-00	FILM 0.1MF 10% CERAMIC CHIP 27PF 5% CERAMIC CHIP 120PF 5%	100V 50V 50V 50V	C395 C396 C397	1-126-101-11 1-126-101-11 1-137-028-11	ELECT ELECT FILM	100MF 100MF 1MF	20% 20% 10%	16V 16V 63V
1,000	1-163-237-11	CERAMIC CHIP 27PF 5%	¥ UC	C398	1-124-907-11	ELECT	10MF	20%	50V

**B**1

REF.NO	D. PART NO.	DESCRIPTION		REMARK	REF.NO	. PART NO.	DESCRIPTION		REMARK
C399 C1301 C1302 C1303 C1304	1-163-038-00 1-163-105-00 2-1-163-235-11 1-163-038-00 1-124-907-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 33PF CERAMIC CHIP 22PF CERAMIC CHIP 0.1MF ELECT 10MF	5% 5% 20%	25V 50V 50V 25V 50V	DL301	<dei< td=""><td>LAY LINE&gt; DELAY LINE, Y</td><td></td><td>·</td></dei<>	LAY LINE> DELAY LINE, Y		·
C1305 C1306 C1307 C1308 C1309	5 1-126-101-11 5 1-163-038-00 7 1-163-038-00 8 1-163-038-11	ELECT 100MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	20%	16 V 25 V 25 V 25 V	FL301 FL302 FL303	1-236-620-11 1-236-620-11 1-236-620-11	TER>  FILTER, LOW F FILTER, LOW F FILTER, LOW F ENCAPSULATED	PASS PASS	
C1310 C1311 C1312 C1313 C1314	1-163-031-11 1-163-038-00 1-163-038-00 1-163-038-00 1-163-109-00	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.01MF	5%	50V 25V 25V 25V 50V	10302	<1C> 8-759-517-43 8-759-980-60 8-759-510-48	IC TDA4580-V7		
C1315 C1316 C1317 C1318 C1319	1-163-038-00 1-163-141-00 1-163-038-00 1-163-038-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	5%	25V 50V 25V 25V	1 C304 1 C305	8-759-510-47 8-759-144-84 8-759-510-50	IC TDA4650WP IC UPC24M05HF IC HCF4052BM		
C1320 C1321 C1322	1-163-031-11 1-163-031-11 1-163-031-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF		50V 50V 50V	10310 10311 10312	8-752-006-12 8-752-337-07 8-759-996-49 8-752-338-45	IC CXD2011Q IC MB40968PF IC CXK1202Q		
C1323 C1324 C1325 C1326	7 702.020_00	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.022MF CERAMIC CHIP 0.1MF		50V 50V 25V 50V	10313 10315	8-752-338-45 8-752-334-55	IC CXD1175AM		
C1327 C1328 C1329	1-163-115-00 1-163-809-11 1-163-035-00	CERAMIC CHIP 0.047MF CERAMIC CHIP 0.047MF		50 V 50 V 25 V 50 V	L301 L303 L304	1-404-554-11	INDUCTOR		
C1330 C1331 C1333	1-164-232-11 1-164-187-11 1-126-101-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 390PF ELECT 100MF	10% 2% 20%	50V 50V 16V	L305 L306 L308	1-408-402-00 1-408-405-00 1-404-495-00	INDUCTOR INDUCTOR INDUCTOR	4.70H 4.7UH	
CT301 CT302	<tri 1-141-418-11 1-141-418-11</tri 	MMER> CAP, ADJ CAP, ADJ			L309 L310 L312 L313	1-408-415-00 1-408-419-00 1-404-495-00	INDUCTOR INDUCTOR COIL COIL	33UH 68UH	
	<010				L321	1-408-409-00 1-408-405-00 1-408-405-00	INDUCTOR Inductor	10UH 4.7UH 4.7UH	
D301 D304 D305 D307 D308	8-719-951-22 8-719-989-26 8-719-989-26 8-719-106-62 8-719-989-26	DIODE INMIO DIODE DAN212K DIODE DAN212K DIODE RDIIM-B2 DIODE DAN212K			L325 L326 L327	1-408-398-00 1-408-405-00 1-408-421-00 1-408-402-00 1-408-425-00	INDUCTOR INDUCTOR INDUCTOR	1.2UH 4.7UH 100UH 2.7UH 220UH	
D309 D310 D311 D312 D314		DIODE DAN212K DIODE RD11M-B2 DIODE RD11M-B2 DIODE RD11M-B2 DIODE 1SS226				<10.1			
D318 D319 D320		DIODE 1SS226					SISTOR>		
D321 D322 D330	8-719-105-91 8-719-400-18	DIODE 1SS226 DIODE RD5.6M-B2 DIODE MA152WK DIODE DAN212K			Q302 Q303 Q304	8-729-120-28 8-729-120-28 8-729-120-28	TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC	1623-L5L6 1623-L5L6 1623-L5L6	
D331 D333 D336 D340	8-719-914-44 8-719-951-22 8-719-400-18	DIODE DAP202K DIODE INM10 DIODE MA152WK DIODE 1SS226			Q306 Q307	8-729-120-28 8-729-120-28	TRANSISTOR DTA TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR DTC	1623-L5L6 1623-L5L6	
D341	8-719-989-26				Q310 Q311	8-729-901-00 8-729-901-00	TRANSISTOR DTC: TRANSISTOR DTC:	124EK 124EK	
					Q320	8-729-120-28	TRANSISTOR 2SC	1623-L5L6	

nuk sisia	PART NO.	DECEDIETION	DCMADN	tore no	DADE NO	DESCRIPTION			DEMARK
ner.wo.		DESCRIPTION	7.7.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	LET.NU.	PARI NU.	DESCRIPTION			REMARK 
U321 U322	8-729-216-22 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G		R306	1-216-035-00		270		1/10W
Q323 Q324 Q327	8-729-120-28 8-729-120-28 8-729-216-22	TRANSISTUR 2SC1623-L5L6 TRANSISTUR 2SC1623-L5L6 TRANSISTUR 2SA1162-C		R307 R309	1-216-097-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 100 100	5% 5%	1/10W 1/10W 1/10W
Q328	8-729-216-22	TRANSISTOR 2SA1162-G		R311 R312	1-216-025-00 1-216-021-00	METAL GLAZE	100 100 68	5% 5% 5%	1/10W 1/10W 1/10W
0329 0330	8-729-216-22 8-729-120-28	TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6		R313	1-216-021-00	METAL GLAZE	68		1/10W
Q331 Q332	8-729-216-22	TRANSISTOR 25A1162-G		R316 R317	1-216-021-00 1-216-081-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	68 22K 220	5% 5% 5% 5%	1/10W 1/10W 1/10W
Q333 Q334	8-729-901-00 8-729-901-00	TRANSISTOR DTC124EK TRANSISTOR DTC124EK		R318	1-216-073-00	METAL GLAZE	10K		1/10W
Q335 Q336 Q337	8-729-120-28 8-729-120-28 8-729-120-28	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6		R319 R320	1-216-073-00 1-216-198-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 1K 10K	5% 5% 5% 5%	1/10W 1/8W 1/10W
Q338	8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SC11623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G TRANSISTOR DTC124EK TRANSISTOR DTC124EK TRANSISTOR 2SC1623-L5L6		R322 R323	1-216-073-00 1-216-057-00	METAL GLAZE METAL GLAZE	10K 10K 2.2K	5% 5%	1/10W 1/10W 1/10W
Q339 Q340 Q341	8-729-120-28 8-729-120-28	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6		R324	1-216-049-00 1-216-033-00	METAL GLAZE	1 K	5%	1/10W
Q342	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R326 R327	1-216-311-00 1-216-311-00	METAL GLAZE	220 6.8 6.8	5% 5% 5% 5%	1/10W 1/10W 1/10W
Q343 Q344	8-729-120-28 8-729-120-28	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6		R328	1-216-311-00	METAL GLAZE	6.8		1/10W
Q345 Q346 Q347	8-729-120-28 8-729-120-28 8-729-120-28	TRANSISTOR 25C1623-L5L6 TRANSISTOR 25C1623-L5L6 TRANSISTOR 25C1623-L5L6		R329 R330 R331		METAL GLAZE METAL GLAZE METAL GLAZE	180 180 180	5% 5% 5% 5%	1/10W 1/10W 1/10W
Q348	8-729-901-00	TRANSISTOR DTC124EK		R332 R333	1-216-182-00 1-216-033-00	METAL GLAZE METAL GLAZE	220 220	5% 5%	1/8W 1/10W
Q350 Q352 Q353	8-729-120-28 8-729-216-22 8-729-120-28	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6		R335	1-216-101-00 1-216-073-00	METAL GLAZE	150K 10K	5%	1/10W 1/10W
Q354	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R337	1-216-093-00 1-216-085-00	METAL GLAZE METAL GLAZE	68K 33K	5%%%% 5%% 5%%	1/10W 1/10W 1/10W
Q355 Q356 Q357	8-729-120-28 8-729-216-22	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G		R339	1-216-083-00	METAL GLAZE	27K		1/10W
4358 4359	8-729-216-22 8-729-120-28 8-729-216-22	TRANSISTOR 25A1162-G TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G		R341 R342	1-216-115-00	METAL GLAZE METAL GLAZE METAL GLAZE	220K 560K 6.8K	5% 5% 5%	1/10W 1/10W 1/10W
0360	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R343	1-216-033-00		220	5%	1/10W (KV-A2121D)
Q361 Q362 Q363	8-729-120-28 8-729-120-28 8-729-120-28	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6		1	1-216-035-00	METAL GLAZE	270	5%	1/10W (KV-A2521D)
Q364	8-729-216-22	TRANSISTOR 2SA1162-G				METAL GLAZE			1/10W (KV-A2921D)
4365 4366 4367	8-729-216-22 8-729-120-28 8-729-120-28	TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6		R344 R345	1-216-089-00 1-216-097-00	METAL GLAZE METAL GLAZE			1/10W 1/10W
Q368 Q369	8-729-120-28 8-729-120-28 8-729-120-28	TRANSISTOR 25C1623-L5L6 TRANSISTOR 25C1623-L5L6 TRANSISTOR 25C1623-L5L6		R346 R347	1-216-033-00 1-216-121-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 220 1M	5% 5% 5%	1/10W 1/10W 1/10W
<b>Q37</b> 0	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R348 R349	1-216-001-00 1-216-001-00	METAL GLAZE METAL GLAZE	10 10	5% 5% 5%	1/10W 1/10W
Q371 Q372 Q373	8-729-120-28 8-729-120-28 8-729-901-00	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR DTC124EK		R350 R351	1-216-184-00 1-216-184-00	METAL GLAZE METAL GLAZE	270 270	5% 5%	1/8W 1/8W
Q1301	8-729-901-00	TRANSISTOR DTC124EK		R352 R353	1-216-070-00 1-216-073-00	METAL GLAZE METAL GLAZE	7.5K 10K	5%	1/10W 1/10W
Q1302 Q1303	8-729-120-28 8-729-901-00	TRANSISTOR 2SC1623-L5L6 TRANSISTOR DTC124EK		R354 R355	1-216-037-00	METAL GLAZE METAL GLAZE	330	5%	1/10W 1/10W
	<res< td=""><td>ISTOR&gt;</td><td></td><td>R357 R358</td><td>1-216-033-00 1-216-061-00 1-216-037-00</td><td>METAL GLAZE METAL GLAZE</td><td>220 3.3K 330</td><td>5% 5% 5%</td><td>1/10W 1/10W 1/10W</td></res<>	ISTOR>		R357 R358	1-216-033-00 1-216-061-00 1-216-037-00	METAL GLAZE METAL GLAZE	220 3.3K 330	5% 5% 5%	1/10W 1/10W 1/10W
JR302 JR304	1-216-295-00		/10W	R359 R361	1-216-041-00 1-216-065-00	METAL GLAZE METAL GLAZE	470 4.7K	5% 5%	1/10W 1/10W
JR305 JR391	1-216-296-00 1-216-295-00 1-216-295-00	METAL GLAZE 0 5% 1/ METAL GLAZE 0 5% 1/	/8W /10W /10W	R362 R363	1-216-065-00 1-216-069-00	METAL GLAZE METAL GLAZE	4.7K 6.8K	5% 5%	1/10W 1/10W
R301 R302	1-216-033-00		/10W	R364 R365	1-216-033-00 1-216-035-00	METAL GLAZE METAL GLAZE	220 270	5% 5%	1/10W 1/10W
R303 R304	1-216-033-00 1-216-033-00 1-216-081-00	METAL GLAZE 220 5% 1/	/10W /10W /10W	R366 R367	1-216-069-00 1-216-069-00	METAL GLAZE METAL GLAZE	6.8K	5% 5%	1/10W 1/10W
R305	1-216-057-00	METAL GLAZE 2.2K 5% 1/	/10₩	R368	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W

## B1

REF.NO	. PART NO.	DESCRIPTION				REMARK	REF.NO	. PART NO.	DESCRIPTION	ļ		
R369 R370 R371 R372 R373	1-216-071-00 1-216-097-00 1-216-049-00 1-216-033-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	8.2K 100K 1K 220 3.3K		1/10W 1/10W 1/10W 1/10W 1/10W		R1336 R1337 R1338 R1339 R1340	1-216-085-00 1-216-039-00	METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 1.8K 33K 390 100		1/10W % 1/10W 1/10W 1/10W 1/10W
R374 R375 R376 R377 R378	1-216-033-00 1-216-043-00 1-216-057-00 1-216-081-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 560 2.2K 22K 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1341 R1342 R1343 R1344 R1345	1-216-667-11 1-216-025-00 1-216-043-00 1-216-057-00	METAL CHIP  METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 100 560 2.2K 15K	0.50% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W
R379 R380 R381 R382 R383	1-216-081-00 1-216-073-00 1-216-073-00 1-216-093-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 10K 10K 68K 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1346 R1347 R1348 R1349 R1350		METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 100 33K 12K 390	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R384 R385 R386 R387 R388	1-216-093-00 1-216-073-00 1-216-093-00 1-216-065-00 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	68K 10K 68K 4.7K 1.5K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1351 R1352 R1353 R1354 R1355	1-216-071-00 1-216-041-00 1-216-065-00 1-216-071-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	8.2K 470 4.7K 8.2K 680	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R389 R390 R391 R392 R393	1-216-049-00 1-216-049-00 1-216-097-00 1-216-097-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 100K 100K 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1356 R1357 R1358 R1359 R1360	1-216-055-00 1-216-049-00 1-216-081-00 1-216-049-00 1-216-051-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.8K 1K 22K 1K 1.2K	5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R394 R395 R396 R397 R398	1-216-065-00 1-216-097-00 1-216-097-00 1-216-047-00 1-216-035-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 100K 100K 820 270	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1361 R1362 R1363 R1364 R1365	1-216-049-00 1-216-055-00 1-216-039-00 1-216-049-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.8K 390 1K 2.7K	5%% 5%% 5%% 5%%	1/10W 1/10W 1/10W 1/10W 1/10W
R399 R1301 R1302 R1303 R1305	1-216-085-00 1-216-065-00 1-216-089-00 1-216-081-00 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	33K 4.7K 47K 22K 1.5K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1366 R1367 R1368 R1369 R1370	1-216-083-00 1-216-059-00 1-216-033-00 1-216-031-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	27K 2.7K 220 180 2.2K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1308 R1309 R1310	1-216-295-00 1-216-065-00 1-216-023-00 1-216-047-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 4.7K 82 820	5% 5%	1/10W	A2521D) A2921D)	R1371 R1372 R1373 R1374 R1375	1-216-031-00 1-216-047-00 1-216-035-00 1-216-202-00 1-216-208-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	180 820 270 1.5K 2.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/8W 1/8W
R1311 R1312 R1313 R1314	1-216-073-00 1-216-039-00 1-216-043-00 1-216-085-00 1-216-049-00	METAL GLAZE	10K 390 560 33K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1378 R1379 R1380	1-216-087-11 1-216-087-11 1-216-087-11 1-216-087-11 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE	39K 39K 39K 39K 1.5K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1316 R1319 R1320 R1321	1-216-073-00 1-216-049-00 1-216-641-11 1-216-073-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE	10K 1K 390 10K 5.6K	5% 5% 0.50% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1381 R1382 R1383 R1384 R1385	1-216-033-00 1-216-089-00 1-216-053-00 1-216-089-00 1-216-055-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 47K 1.5K 47K 1.8K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1323 R1324 R1325 R1326	1-216-643-11 1-216-073-00 1-216-037-00 1-216-045-00 1-216-029-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 10K 330 680	0.50% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R1389 R1390	1-216-047-00 1-216-031-00 1-216-073-00 1-216-073-00 1-216-093-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	820 180 10K 10K 68K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1327 R1328 R1329 R1330 R1331	1-216-073-00 1-216-049-00 1-216-081-00 1-216-081-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 1K 22K 22K	5%%%%%% 5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W 1/10W		R1392 R1393 R1394 R1395	1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	820 820 22K 22K	5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W
R1333 R1334 R1335	1-216-077-00 1-216-075-00	METAL GLAZE METAL GLAZE METAL GLAZE	15K 12K 560	5% 5% 5%	1/10W 1/10W 1/10W 1/10W			1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K	5%	1/10W 1/10W 1/10W

REMARK

The components identified by shading and mark ▲ are critical for safety.
Replace only with part number specified.



						1555 Ha	D.DT. 440	DOGGO LDELON			
REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK 
R1399	1-216-029-00	METAL GLAZE	150 5%	1/10W			<1C>				
	<var]< td=""><td>ABLE RESISTOR</td><td>&gt;</td><td></td><td></td><td>10103</td><td>8-759-979-62</td><td>IC PCF8574</td><td></td><td></td><td></td></var]<>	ABLE RESISTOR	>			10103	8-759-979-62	IC PCF8574			
RV301	1-238-012-11	RES, ADJ, CAR	BON 1K				· <01	L>			
	<crys< td=""><td>STAL&gt;</td><td></td><td></td><td></td><td></td><td>1-410-683-31</td><td></td><td>560UH</td><td></td><td></td></crys<>	STAL>					1-410-683-31		560UH		
X301 X302	1-567-307-11 1-567-131-00	OSCILLATOR, COSCILLATOR, CO	RYSTAL Rystal			L101 L102 L107	1-408-225-00 1-408-413-00 1-408-397-00	INDUCTOR	3.3UH 22UH 1UH		
*****	**********	*********	********	******	******	 	<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td></tra<>	NSISTOR>			
	*1-638-390-11	F BOARD ******				Q113	8-729-120-28	TRANSISTOR 25			
	*4-341-752-01	EYELET				Q114 Q115 Q116	8-729-120-28 8-729-120-28 8-729-120-28 8-729-900-89	TRANSISTOR 29 TRANSISTOR 29 TRANSISTOR 29 TRANSISTOR DT	SC1623-L5L6 SC1623-L5L6		
	<con:< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td>Q125 Q126</td><td></td><td>TRANSISTOR DT</td><td></td><td></td><td></td></con:<>	NECTOR>				Q125 Q126		TRANSISTOR DT			
F61 F62	*1-580-844-11 *1-580-844-11	PIN, CONNECTO PIN, CONNECTO	OR (POWER) OR (POWER)			Q181	8-729-120-28	TRANSISTOR 25	SC1623-L5L6		
	<fus< td=""><td>£\</td><td></td><td></td><td>     </td><td><res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td></res<></td></fus<>	£\			   	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td></res<>	ISTOR>				
F1601	↑1-576-231-21 1-533-230-11	FUSE (H.B.C.)				JR252	1-216-295-00 1-216-296-00 1-216-296-00	METAL GLAZE		1/10W 1/8W 1/8W	
			71001			JR255	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0 5% 0 5%	1/8W 1/8W	
\$1701	<\$WI <u>1-571-433-</u> 12		(እሮ ውስጨዋወነ			JR257	1-216-296-00 1-216-296-00	METAL GLAZE	0 5% 0 5%	1/8W 1/8W	
	*********	•		******	******	R101	1-216-025-00 1-216-079-00	METAL GLAZE METAL GLAZE	100 5% 18K 5%	1/10W 1/10W	
	*A-1632-022-A	A BOARD, COMF				R107 R108	1-216-081-00 1-216-079-00		22K 5% 18K 5%	1/10W 1/10W	
		****	****			R110 R111	1-249-429-11 1-216-057-00	CARBON . METAL GLAZE	10K 5% 2.2K 5%	1/4W 1/10W	
		NECTOR>	) + D D D D Q + D	n.		R116 R118	1-216-023-00 1-216-085-00	METAL GLAZE METAL GLAZE	82 5% 33K 5%	1/10W 1/10W	
A12	*1-565-393-11 *1-565-393-11 *1-565-503-11	CONNECTOR, BU CONNECTOR, BU CONNECTOR, BU	DARD TO BOARI	D		R128 R129 R130	1-216-027-00 1-216-057-00	METAL GLAZE METAL GLAZE	120 5% 2.2K 5% 2.2K 5%	1/10W 1/10W	
A16	*1-560-290-00 *1-564-886-11	PLUG, CONNECT	FOR (2.5MM P	ĬΤĈĦ)		R157	1-216-057-00 1-216-049-00	METAL GLAZE METAL GLAZE	1K 5%	1/10W 1/10W	
A19	*1-564-881-11	PLUG, CONNECT	ror 4P			R158	1-249-409-11	CARBON	220 5% 220 5%	1/4W 1/4W	
	<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td>R161 R162</td><td>1-216-089-00 1-216-095-00</td><td>METAL GLAZE METAL GLAZE</td><td>47K 5% 82K 5%</td><td>1/10W 1/10W</td><td></td></cap<>	ACITOR>				R161 R162	1-216-089-00 1-216-095-00	METAL GLAZE METAL GLAZE	47K 5% 82K 5%	1/10W 1/10W	
C101 C102	1-126-233-11 1-126-103-11	ELECT ELECT	22MF 470MF	20% 20%	50V 16V	R163 R164	1-216-095-00 1-216-075-00	METAL GLAZE METAL GLAZE	82K 5% 12K 5%	1/10W 1/10W	
C104 C106	1-124-910-11 1-126-233-11	ELECT ELECT	47MF 22MF	20% 20% 20% 5%	50V 50V	R165 R167	1-216-075-00 1-216-059-00	METAL GLAZE METAL GLAZE	12K 5% 2.7K 5%	1/10W 1/10W	
C108	1-136-165-00 1-163-133-00	FILM	0.1MF		50V 50V	R168 R169 R181	1-216-089-00 1-216-059-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 5% 2.7K 5% 1K 5%	1/10W 1/10W 1/10W	
C109 C111 C115	1-124-925-11 1-124-925-11	CERAMIC CHIP ELECT ELECT	2.2MF 2.2MF	5% 20% 20%	50V 50V	R182	1-216-065-00	METAL GLAZE		1/10W	
C127 C128	1-124-122-11 1-124-910-11	ELECT ELECT	100MF 47MF	20% 20%	50 <b>V</b> 50 <b>V</b>	R193 R194	1-216-073-00 1-216-017-00	METAL GLAZE METAL GLAZE	4.7K 5% 10K 5% 47 5% 47 5%	1/10W 1/10W 1/10W	
C129 C138	1-124-910-11 1-136-165-00	ELECT Film	47MF 0.1MF	20 <b>%</b> 5 <b>%</b>	50V 50V	R195 R196	1-216-017-00 1-216-113-00	METAL GLAZE METAL GLAZE	47 5% 470K 5%	1/10W	
C171 C172	1-163-005-11 1-163-005-11	CERAMIC CHIP CERAMIC CHIP	470PF 470PF	10% 10%	50V 50V		<tun< td=""><td>ER&gt;</td><td></td><td></td><td></td></tun<>	ER>			
C177 C181	1-102-074-00 1-101-004-00	CERAMIC	0.001MF 0.01MF	10%	50V 50V	TU101 A	1-465-301-11	TUNER, ET (U	/-816(PLL))		
4101	- 101 004 00	OBJUNITY C	0.01111		301	1					

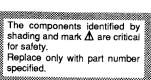


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td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td>R704</td><td>1-216-486-00</td><td>SISTOR&gt; METAL OXIDE</td><td>8.2K</td><td>5<b>%</b></td><td>3W F</td></cun<></td></tr> <tr><td>C71 C72 C81 C82</td><td>*1-506-371-00 *1-568-881-51 *1-568-878-51 *1-508-765-00</td><td>PIN, CONNECT PIN, CONNECT PIN, CONNECT PIN, CONNECT</td><td>OR 6P OR 3P</td><td>ТСН<b>) З</b>Р</td><td></td><td>R705 R706 R707</td><td>1-202-824-00 1-249-409-11 1-247-822-11</td><td>SOLID CARBON CARBON</td><td>3.3K 220 430</td><td>10% 5% 5%</td><td>1/2W 1/4W 1/4W (KV-A2121D)</td></tr> <tr><td></td><td><cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td></td><td>1-249-412-11</td><td>CARBON</td><td>390</td><td>5% (VV</td><td>1/4W -A2521D,A2921D)</td></cap<></td></tr> <tr><td>C703 C704 C705</td><td>1-102-980-00 1-102-116-00 1-102-976-00</td><td>CERAMIC CERAMIC CERAMIC</td><td>270PF 680PF 180PF</td><td>5% 10% 5%</td><td>50V 50V 50V</td><td>R708 R709 R710</td><td>1-249-401-11 1-202-844-00 1-215-469-00</td><td>CARBON SOLID METAL</td><td>47 330K 100K</td><td>5% 10% 1%</td><td>1/4W 1/2W 1/4W</td></tr> <tr><td></td><td>1-102-978-00</td><td>CERAMIC</td><td>220PF</td><td>5% (F</td><td>(V-A2121D) 50V</td><td>i i i i</td><td>1-215-465-00</td><td>METAL</td><td>68K</td><td>1%</td><td>(KV-A2121D) 1/4W</td></tr> <tr><td>C706 C707</td><td>1-102-116-00 1-162-116-00</td><td>CERAMIC CERAMIC</td><td>680PF 680PF</td><td>(KV-A2521 10% 10%</td><td>ID, A2921D) 50V 2KV</td><td>R711 R712</td><td>1-249-426-11 1-249-417-11</td><td>CARBON CARBON</td><td>5.6K 1K</td><td>5% 5%</td><td>-A2521D,A2921D) 1/4W 1/4W</td></tr> <tr><td>C708 C709</td><td>1-162-114-00 1-102-116-00</td><td>CERAMIC CERAMIC</td><td>0.00<b>47M</b>F 680PF</td><td>10%</td><td>2KV 50V</td><td>R713</td><td>1-215-474-00</td><td>METAL</td><td>160K</td><td>1%</td><td>1/4W (KV-A2121D)</td></tr> <tr><td>C710 C711</td><td>1-123-947-00</td><td>ELECT</td><td>10MF</td><td>20%</td><td>250V</td><td>   </td><td>1-215-471-00</td><td>METAL OVER</td><td>120K</td><td>1% (KV</td><td>1/4W -A2521D,A2921D)</td></tr> <tr><td>C712 C714</td><td>1-101-880-00 1-102-980-00 1-124-360-00</td><td>CERAMIC CERAMIC ELECT</td><td>47PF 270PF 1000MF</td><td>5% 5% 20%</td><td>50V 50V 16V</td><td>R714 R715</td><td>1-216-486-00 1-202-824-00</td><td>METAL OXIDE SOLID</td><td>8.2K 3.3K</td><td>5% 10%</td><td>3W F 1/2W</td></tr> <tr><td>C716 C717</td><td>1-162-622-11 1-102-114-00</td><td>CERAMIC CERAMIC</td><td>330PF 470PF</td><td>10% 10%</td><td>400V 50V</td><td>R716 R717 R718</td><td>1-249-409-11 1-249-415-11 1-202-814-11</td><td>CARBON CARBON SOLID</td><td>220 680 33K</td><td>5% 5% 10%</td><td>1/4W 1/4W 1/2W</td></tr> <tr><td>C718 C719</td><td>1-102-114-00 1-102-114-00</td><td>CERAMIC CERAMIC</td><td>470PF 470PF</td><td>10% 10%</td><td>50V 50V</td><td>R719 R720</td><td>1-249-401-11 1-249-423-11</td><td>CARBON CARBON</td><td>47 3.3K</td><td>5<b>%</b> 5<b>%</b></td><td>1/4W</td></tr> <tr><td>D701</td><td><d10 8-719-110-14</d10 </td><td></td><td>S-B3</td><td></td><td></td><td>R721 R722 R723 R724</td><td>1-202-842-11 1-202-848-00 1-249-417-11 1-202-846-00</td><td>SOLID SOLID CARBON SOLID</td><td>220K 680K 1K</td><td>10% 10% 5% 10%</td><td>1/2W 1/2W 1/2W 1/4W 1/2W</td></tr> <tr><td>D702 D703 D704 D705</td><td>8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19</td><td>DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119</td><td></td><td></td><td></td><td>R725 R726 R727</td><td>1-202-838-00 1-202-824-00 1-249-409-11</td><td>SOLID SOLID CARBON</td><td>100K 3.3K 220</td><td>10% 10%</td><td>1/2W 1/2W 1/4W</td></tr> <tr><td>Ս706 Ս707</td><td>8-719-911-19 8-719-911-19</td><td>DIODE 188119 DIODE 188119</td><td></td><td></td><td></td><td>R728 R729</td><td>1-216-347-11 1-249-416-11</td><td>METAL OXIDE CARBON</td><td>0.68 820</td><td>5% 5% 5%</td><td>1W F 1/4W</td></tr> <tr><td>D708 D709 D710</td><td>8-719-911-19 8-719-911-19 8-719-911-19</td><td>DIODE 188119 DIODE 188119 DIODE 188119</td><td></td><td></td><td></td><td>R730 R731 R732 R733</td><td>1-249-401-11 1-249-423-11 1-249-415-11 1-249-415-11</td><td>CARBON CARBON CARBON CARBON</td><td>47 3.3K 680 680</td><td>5% 5% 5% 5%</td><td>1/4W 1/4W 1/4W 1/4W</td></tr> <tr><td>D711 D713</td><td>8-719-300-33 8-719-911-19</td><td>DIODE RU-3AM DIODE 188119</td><td></td><td></td><td></td><td>R734</td><td>1-249-405-11</td><td>CARBON</td><td>100</td><td>5%</td><td>1/4W</td></tr> <tr><td></td><td><jac< td=""><td>K&gt;</td><td></td><td></td><td></td><td>R735 R736 R737</td><td>1-215-493-00 1-216-486-00 1-215-483-00</td><td>METAL METAL OXIDE METAL</td><td>1M 8.2K 390K</td><td>1% 5% 1%</td><td>1/4W 3W F 1/4W</td></jac<></td></tr> <tr><td>J701</td><td>1-526-990-11</td><td></td><td>URE TUBE</td><td></td><td></td><td></td><td>1-215-491-00</td><td>METAL</td><td></td><td>1%</td><td>(KV-A2121D) 1/4W</td></tr> <tr><td></td><td><c01< 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1/4W		1-102-978-00	CERAMIC	220PF	5% (F	(V-A2121D) 50V	i i i i	1-215-465-00	METAL	68K	1%	(KV-A2121D) 1/4W	C706 C707	1-102-116-00 1-162-116-00	CERAMIC CERAMIC	680PF 680PF	(KV-A2521 10% 10%	ID, A2921D) 50V 2KV	R711 R712	1-249-426-11 1-249-417-11	CARBON CARBON	5.6K 1K	5% 5%	-A2521D,A2921D) 1/4W 1/4W	C708 C709	1-162-114-00 1-102-116-00	CERAMIC CERAMIC	0.00 <b>47M</b> F 680PF	10%	2KV 50V	R713	1-215-474-00	METAL	160K	1%	1/4W (KV-A2121D)	C710 C711	1-123-947-00	ELECT	10MF	20%	250V	 	1-215-471-00	METAL OVER	120K	1% (KV	1/4W -A2521D,A2921D)	C712 C714	1-101-880-00 1-102-980-00 1-124-360-00	CERAMIC CERAMIC ELECT	47PF 270PF 1000MF	5% 5% 20%	50V 50V 16V	R714 R715	1-216-486-00 1-202-824-00	METAL OXIDE SOLID	8.2K 3.3K	5% 10%	3W F 1/2W	C716 C717	1-162-622-11 1-102-114-00	CERAMIC CERAMIC	330PF 470PF	10% 10%	400V 50V	R716 R717 R718	1-249-409-11 1-249-415-11 1-202-814-11	CARBON CARBON SOLID	220 680 33K	5% 5% 10%	1/4W 1/4W 1/2W	C718 C719	1-102-114-00 1-102-114-00	CERAMIC CERAMIC	470PF 470PF	10% 10%	50V 50V	R719 R720	1-249-401-11 1-249-423-11	CARBON CARBON	47 3.3K	5 <b>%</b> 5 <b>%</b>	1/4W	D701	<d10 8-719-110-14</d10 		S-B3			R721 R722 R723 R724	1-202-842-11 1-202-848-00 1-249-417-11 1-202-846-00	SOLID SOLID CARBON SOLID	220K 680K 1K	10% 10% 5% 10%	1/2W 1/2W 1/2W 1/4W 1/2W	D702 D703 D704 D705	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119				R725 R726 R727	1-202-838-00 1-202-824-00 1-249-409-11	SOLID SOLID CARBON	100K 3.3K 220	10% 10%	1/2W 1/2W 1/4W	Ս706 Ս707	8-719-911-19 8-719-911-19	DIODE 188119 DIODE 188119				R728 R729	1-216-347-11 1-249-416-11	METAL OXIDE CARBON	0.68 820	5% 5% 5%	1W F 1/4W	D708 D709 D710	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 188119 DIODE 188119 DIODE 188119				R730 R731 R732 R733	1-249-401-11 1-249-423-11 1-249-415-11 1-249-415-11	CARBON CARBON CARBON CARBON	47 3.3K 680 680	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	D711 D713	8-719-300-33 8-719-911-19	DIODE RU-3AM DIODE 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C716 C717	1-162-622-11 1-102-114-00	CERAMIC CERAMIC	330PF 470PF	10% 10%	400V 50V	R716 R717 R718	1-249-409-11 1-249-415-11 1-202-814-11	CARBON CARBON SOLID	220 680 33K	5% 5% 10%	1/4W 1/4W 1/2W																																																																																																																																																																																																																																																																																				
C718 C719	1-102-114-00 1-102-114-00	CERAMIC CERAMIC	470PF 470PF	10% 10%	50V 50V	R719 R720	1-249-401-11 1-249-423-11	CARBON CARBON	47 3.3K	5 <b>%</b> 5 <b>%</b>	1/4W																																																																																																																																																																																																																																																																																				
D701	<d10 8-719-110-14</d10 		S-B3			R721 R722 R723 R724	1-202-842-11 1-202-848-00 1-249-417-11 1-202-846-00	SOLID SOLID CARBON SOLID	220K 680K 1K	10% 10% 5% 10%	1/2W 1/2W 1/2W 1/4W 1/2W																																																																																																																																																																																																																																																																																				
D702 D703 D704 D705	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119				R725 R726 R727	1-202-838-00 1-202-824-00 1-249-409-11	SOLID SOLID CARBON	100K 3.3K 220	10% 10%	1/2W 1/2W 1/4W																																																																																																																																																																																																																																																																																				
Ս706 Ս707	8-719-911-19 8-719-911-19	DIODE 188119 DIODE 188119				R728 R729	1-216-347-11 1-249-416-11	METAL OXIDE CARBON	0.68 820	5% 5% 5%	1W F 1/4W																																																																																																																																																																																																																																																																																				
D708 D709 D710	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 188119 DIODE 188119 DIODE 188119				R730 R731 R732 R733	1-249-401-11 1-249-423-11 1-249-415-11 1-249-415-11	CARBON CARBON CARBON CARBON	47 3.3K 680 680	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W																																																																																																																																																																																																																																																																																				
D711 D713	8-719-300-33 8-719-911-19	DIODE RU-3AM DIODE 188119				R734	1-249-405-11	CARBON	100	5%	1/4W																																																																																																																																																																																																																																																																																				
	<jac< td=""><td>K&gt;</td><td></td><td></td><td></td><td>R735 R736 R737</td><td>1-215-493-00 1-216-486-00 1-215-483-00</td><td>METAL METAL OXIDE METAL</td><td>1M 8.2K 390K</td><td>1% 5% 1%</td><td>1/4W 3W F 1/4W</td></jac<>	K>				R735 R736 R737	1-215-493-00 1-216-486-00 1-215-483-00	METAL METAL OXIDE METAL	1M 8.2K 390K	1% 5% 1%	1/4W 3W F 1/4W																																																																																																																																																																																																																																																																																				
J701	1-526-990-11		URE TUBE				1-215-491-00	METAL		1%	(KV-A2121D) 1/4W																																																																																																																																																																																																																																																																																				
	<c01< td=""><td>L&gt;</td><td></td><td></td><td></td><td></td><td>1-215-485-00</td><td>METAL</td><td>470K</td><td>1%</td><td>(KV-A2521D) 1/4W (KV-A2021D)</td></c01<>	L>					1-215-485-00	METAL	470K	1%	(KV-A2521D) 1/4W (KV-A2021D)																																																																																																																																																																																																																																																																																				
L704	1-408-415-00	INDUCTOR	33UH		ļ	R739	1-249-417-11	CARBON	1 K	5 <b>%</b>	(KV-A2921D) 1/4W																																																																																																																																																																																																																																																																																				

The components identified by shading and mark ▲ are critical for safety.
Replace only with part number specified.



REF.NO. PART NO.		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
<vaf RV701 1-230-641-11</vaf 	HABLE RESISTOR> RES, ADJ, METAL GLAZE 2.2M		C506 C507 C508 C509	1-137-102-11 1-137-033-11 1-137-102-11 1-137-098-11	FILM	0.022MF 0.33MF 0.022MF 0.1MF	10% 10% 10% 10%	250V 100V 250V 100V
RV702 1-230-619-11 RV703 1-237-749-11 RV704 1-237-749-11	RES, ADJ, METAL GLAZE 110M RES, ADJ, CARBON 2200		C510 C511 C512 C513 C514	1-161-959-00 1-108-686-11 1-137-098-11 1-163-125-00 1-137-031-11	CERAMIC MYLAR FILM CERAMIC CHIP FILM	22PF 0.0033MF 0.1MF 220PF 0.22MF	10% 10% 10% 5% 10%	500V 100V 100V 50V 100V
*A-1642-031-A	D BOARD, COMPLETE (KV-A2121D) ***************** D BOARD, COMPLETE (KV-A2521D) *********************** D BOARD, COMPLETE (KV-A2921D) ************************************		C515 C516 C517 C518 C519	1-108-680-11 1-124-252-00	ELECT ELECT	1MF 0.001MF 0.33MF 0.47MF 0.47MF	20% 10% 20% 20% 5%	50V 100V 50V 50V 50V
4-200-001-01	HOLDER, IC			1-136-171-00	FILM	0.33MF	(KV-A2121 5%	50V
4-201-023-01 *4-341-751-01 *4-341-752-01 *4-368-683-01	EYELET EYELET		C520 C521	1-164-161-11 1-137-098-11	CERAMIC CHIP FILM	0.0022MF 0.1MF	10% 10%	V-A2921D) 50V 100V
	PACITOR>		C522 C523 C524 C525	1-124-122-11 1-108-680-11 1-108-798-11 1-163-117-00	MYLAR MYLAR CERAMIC CHIP	100MF 0.001MF 0.0033MF 100PF	5%	50V 100V 50V 50V
C002 1-163-205-00 C003 1-124-925-11 C004 1-124-120-11		50V 50V 16V	C526	1-163-103-00	CERAMIC CHIP	27PF	5% (KV-A2121	50V n a2521n)
C005 1-124-903-11 C008 1-163-117-00	ELECT 1MF 20%	50V 50V	gron		CERAMIC CHIP		5% (K	50V V-A2921D)
C009 1-163-117-00 C010 1-124-120-11	CERAMIC CHIP 100PF 5% ELECT 220MF 20%	50V 16V	C527 C531	1-137-098-11 1-124-190-00	ELECT	0.1MF 680MF	10% 10%	100V 25V
C011 1-163-031-11 C013 1-137-098-11 C014 1-137-098-11	CERAMIC CHIP 0.01MF FILM 0.1MF 10% FILM 0.1MF 10%	50V 100V 100V	C532 C533 C534 C536	1-124-122-11 1-137-096-11 1-124-120-11 1-131-363-00	ELECT FILM ELECT TANTALUM	100MF 0.068MF 220MF 4.7MF	20% 10% 20% 10%	50V 100V 16V 16V
C015 1-124-902-00 C016 1-163-141-00 C017 1-137-098-11	ELECT 0.47MF 20% CERAMIC CHIP 0.001MF 5% FILM 0.1MF 10%	50V 50V 100V		1-131-365-00	TANTALUM	10 <b>M</b> F	(K 10%	V-A2121D) 16V
C018 1-163-127-00 C019 1-137-094-11		50V 100V	C537 C538	1-124-903-11 1-108-680-11	ELECT	1MF 0.001MF	(KV-A2521 20% 10%	
C021 1-163-117-00 C023 1-163-117-00	CERAMIC CHIP 100PF 5%	50V 50V	C539	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C024 1-163-117-00 C027 1-124-910-11 C030 1-163-038-00	ELECT 47MF 20% CERAMIC CHIP 0.1MF	50V 50V 25V	C601 A	1-163-009-11 1-124-122-11 1-163-129-00 . 1-161-964-61	CERAMIC CHIP CERAMIC	100MF 330PF	10% 20% 5%	50V 50V 50V 250V
C031 1-163-081-00 C032 1-163-081-00 C033 1-163-181-00		25V 25V 50V	C602 <u>∧</u>	.1-161-964-61	CERAMIC CERAMIC	0.0047MF 0.0047MF		250V 250V
C034 1-124-907-11 C251 1-124-903-11	ELECT 10MF 20% ELECT 1MF 20%	50 V 50 V	C604 ▲ C605	. 1-125-318-11 1-124-484-11	ELECT (BLOCK) ELECT	220MF 220MF	20% 20%	<b>4</b> 00 <b>V</b> <b>3</b> 5 <b>V</b>
C252 1-126-233-11 C253 1-163-009-11	ELECT 22MF 20% CERAMIC CHIP 0.001MF 10%	50V 50V	C606 C607	1-163-137-00 1-137-028-11	CERAMIC CHIP FILM	680PF 1MF	5% 10%	50V 63V
C254 1-137-098-11 C255 1-124-636-00 C261 1-124-903-11	FILM 0.1MF 10%	100V 25V 50V	C608 C611 C612	1-124-927-11 1-124-910-11 1-108-680-11	ELECT ELECT MYLAR	4.7MF 47MF 0.001MF	20% 20% 10%	50V 50V 100V
C262 1-126-233-11 C263 1-163-009-11	ELECT 22MF 20% CERAMIC CHIP 0.001MF 10%	50 V 50 V	C613 C614	1-136-539-11 1-102-030-00	FILM CERAMIC	0.0022MF 330PF	3% 10%	2KV 500V
C264 1-137-098-11 C265 1-124-564-11 C270 1-137-035-11	FILM 0.1MF 10% BLECT 4700MF 20% FILM 0.47MF 10%	100V 25V 100V	C615 C616 C617	1-128-142-11 1-102-030-00 1-124-120-11	ELECT CERAMIC ELECT	1500MF 330PF 220MF	20% 10% 20%	25V 500V 25V
C274 1-137-035-11 C501 1-124-927-11	FILM 0.47MF 10% ELECT 4.7MF 20%	100V 50V		1-124-122-11	ELECT	100 <b>M</b> F	20%	1—A2121D) <b>5</b> 0V
C502 I-124-927-11 C503 I-137-049-11 C504 I-163-121-00	ELECT 4.7MF 20% FILM 0.015MF 10%	50V 400V 50V	C618 C619	1-162-115-00 1-128-320-11	CERAMIC ELECT	330PF 2200MF	(KV-A2521 10% 20%	I, A2921D) ≥KV 16V
C505 1-108-794-11		50V 50V	C620	1-137-028-11	FILM	1MF	10%	53V V-A2121D)



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RE	F.NO	. PART NO.	DESCRIPTION	l -		REMARK	REF.N	O. PART NO.	DESCRIPTION REMARK
C	620	1~136~173~00	FILM	0.47MF	5% (KV-42)	50V 521D, A2921D)	D18	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)
C	621 622 623	1-124-347-00 1-128-320-11 1-124-910-11	ELECT ELECT ELECT	100MF 2200MF 47MF	20% 20% 20% 20%	160V	D21 D22 D31 D32	*1-565-394-11 *1-565-394-11 *1-565-394-11 *1-565-394-11	PIN, BOARD TO BOARD CONNECTOR PIN, BOARD TO BOARD CONNECTOR PIN, BOARD TO BOARD CONNECTOR PIN, BOARD TO BOARD CONNECTOR
C	62 <b>4</b> 62 <b>5</b>	1-124-122-11 1-124-360-00	ELECT ELECT	100MF 1000MF	20% 20%	16V	D33	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR
C	626 627 631	1-124-907-11 1-163-009-11 1-124-927-11	ELECT CERAMIC CHIP ELECT	10MF 0.001MF 4.7MF	20% 10% 20%	50V 50V 50V	D41 D44 D45	*1-566-367-11 *1-568-881-51 *1-568-881-51	PIN, CONNECTOR 6P
C	632 633	1-163-009-11 1-163-117-00		100PF	10% 5%	50V 50V	D51 D62	*1-566-367-11 *1-565-395-11	CONNECTOR, HINGE (RECEPTACLE) PIN, CONNECTOR 3P
C	801 802 804	1-126-105-11 1-102-030-00 1-123-948-00	ELECT CERAMIC ELECT	1000MF 330PF 22MF	20% 10% 20%	35V 500V 250V	D65 D66 D82 D83	*1-508-765-00 *1-508-786-00 *1-508-765-00 *1-508-786-00	PIN, CONNECTOR (5MM PITCH) 3P PIN, CONNECTOR (5MM PITCH) 2P PIN, CONNECTOR (5MM PITCH) 3P PIN, CONNECTOR (5MM PITCH) 2P
C	805 806	1-162-114-00 1-137-098-11	CERAMIC FILM	0.0047MF 0.1MF	10%	2KV 100V	D84	*1-580-798-11	CONNECTOR PIN (DY) 6P
C	807 810 811	I-106-395-00 I-123-024-21 I-136-111-00	MYLAR ELECT FILM	0.15MF 33MF 1MF	10% 5%	200V 160V 200V	D88   D801	*1-568-878-51 *1-508-765-00	PIN, CONNECTOR 3P (KV-A2921D) PIN, CONNECTOR (5MM PITCH) 3P
		1-136-113-00	FILM	2MF	5%	(KV-A2121D) 200V	 	<dic< td=""><td></td></dic<>	
	812 813	1-124-634-11 1-102-212-00		1MF 820PF	(KV-A25 20% 10%	521D, A2921D) 250V 500V	D001 D002 D003	8-719-109-97 8-719-109-97 8-719-911-19	DIODE RD6.8ES-B2 DIODE RD6.8ES-B2 DIODE 1SS119
Ç8	314 2	<b>A.</b> 1-161-731-51 1-136-111-00	CERAMIC	0.001MF 1MF	10% 5%	2KV 200V	D005 D006	8-719-109-89 8-719-982-24	DIODE RD5.6ES-B2 DIODE MTZJ-33A
		1-136-540-11	FILM	0.82 <b>MF</b>	(KV-A21 5%	121D, A2521D) 200V (KV-A2921D)	D007 D009 D010	8-719-982-08 8-719-109-89 8-719-921-54	DIODE MTZJ-3.9B · DIODE RD5.6ES-B2 DIODE MTZJ-6.2B
CE	31 <b>7</b> <u>/</u>	<b>A.</b> 1-136-549-11	FILM	0.0106MF	3%	1.4KV (KV-A2121D)	D011 D012	8-719-921-54 8-719-911-19	DIODE MTZJ-6.2B DIODE 1SS119
		<u>N</u> . 1-136-565-11		0.015MF	3%	1.4KV (KV-A2521D)	D013 D271	8-719-109-97 8-719-110-31	DIODE RD6.8ES-B2 DIODE RD12ES-B2 (KV-A2121D)
		<b>∆.</b> 1-136-591-11	FILM	0.017MF	3%	1.4KV (KV-A2921D)	D272 D501	8-719-921-88 8-719-911-19 8-719-911-19	DIODE MTZJ-13B (KV-A2521D, A2921D) DIODE 1SS119 DIODE 1SS119
C8	H9 🔏	A. 1-129-721-51 A. 1-161-731-51	CERAMIC	0.039MF 0.001MF	10% 10%	630V 2KV	D504	8-719-911-55	DIODE UO5G
		1-137-046-11 <u>1-162-116-51</u>	CERAMIC	0.0082MF 680PF	10% 10%	400V 2KV	D506 D508 D509	8-719-800-76 8-719-911-19 8-719-911-19	DIODE 1SS226 (KV-A2121D,A2521D) DIODE 1SS119 DIODE 1SS119 (KV-A2521D,A2921D)
	Δi	1-162-134-51	CERAMIC	470PF	(KV-A21 10%	21D, A2521D)	D511	8-719-911-55	DIODE UOSG
	22 23	1-163-005-11 1-137-043-11	CERAMIC CHIP	470PF 0.0047MF	10% 10%	(KV-A2921D) 50V 400V	D512 D513 D514	8-719-911-55 8-719-010-34 8-719-911-19	DIODE U05G DIODE UZ-4.7BSC DIODE 1SS119 (KV-A2921D)
	24 25	1-102-212-00 1-137-102-11	CERAMIC FILM	820PF 0.022MF	10% 10%	500V 250V	D515 D601	8-719-911-19 <u>∧</u> .8-719-510-63	DIODE 188119 (KV-A2921D) DIODE D48B6OL-F
C1 C1	601Z 60 <b>2</b> Z	<u>1</u> 1-136-518-11 1-136-519-11	FILM FILM	0.33MF 0.47MF	20% 20%	300V   300V	D602 D603	8-719-300-33 8-719-911-55	DIODE RU-3AM DIODE UO5G
CI	60 <b>5</b> Z	1-164-246-61 1-164-246-61	CERAMIC CERAMIC	0.0022MF	20% 20%	400V 400V	D604 D605 D606	8-719-911-55 8-719-911-55 8-719-300-33	DIODE UOSG DIODE UOSG DIODE RU-3AM
U1	607 <i>Z</i>	1-161-964-61	CERAMIC	0.0047MF		250V	D607 D608		DIODE RU-3AM DIODE RU-3AM
	001 501	<fil 1-577-364-11 1-567-888-11</fil 	VIBRATOR, CE			 	D609 D610 D611	8-719-982-24 8-719-300-59	DIODE MTZJ-33A DIODE CTU-12S DIODE ERD29-08J
-21	1		,	SEMMILL			D612 D613	8-719-979-85	DIODE CTU-12S DIODE EGP20G
D1		*1-568-881-51					D614 D616 D617	8-719-921-54	DIODE EGP2OG DIODE MT2J-6.2B DIODE 1SS119
D2 D1: D1:	I	*1-568-882-51 *1-565-394-11 *1-565-394-11	PIN, BOARD TO	D BOARD CO	NNECTOR NNECTOR	 	D618 D619	8-719-109-89	DIODE RD5.6ES-B2 DIODE MTZJ-33A



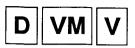
REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
D620     8-719-800-76       D621     8-719-982-24       D622     8-719-911-19       D623     8-719-911-19       D624     8-719-911-19	DIODE MTZJ-33A		T801 T802	<u>A</u> . 1-437-090-21 <u>A</u> . 1-439-416-51 <1€	HDT Transformer Link>	ASSY, FLYBAC	K (UX-1650)
0801       8-719-300-33         0802       8-719-300-33         0803       8-719-976-64         0804       8-719-911-55	DIODE MTZJ-15A DIODE RU-3AM DIODE RU-3AM DIODE RGPO2-17 DIODE UO5G		PS601/A PS602/A PS603/A PS604/A	A 1-532-984-91 A 1-532-984-91 A 1-532-679-91 A 1-532-984-91	LINK, IC (IC LINK, IC (IC LINK, IC (IC LINK, IC (IC	P-N50) 2A P-N50) 2A P-N15) 0.6A P-N50) 2A	
0805 8-719-911-55 0806 8-719-945-80 0807 8-719-945-80 0808 8-719-928-08 8-719-900-26	DIODE U05G DIODE ERC06-15S DIODE ERC06-15S (KV-A2521D,A2921D DIODE ERD28-08S (KV-A2121D) DIODE ERD29-08J (KV-A2521D,A2921D	)) ))	Q001 Q002 Q003 Q004 Q005	8-729-901-01 8-729-901-01 8-729-216-22 8-729-216-22	TRANSISTOR D	TC144EK SA1162-G SA1162-G	
<1C>			Q006	8-729-901-01	TRANSISTOR D	TC144EK	
10001 8-759-047-60 10002 8-759-000-47 10003 8-759-945-58 10005 8-759-748-56 10251 8-759-988-94	IC SDA20560-A012 IC MC14051BCP IC RC4558P IC SDA2546 IC TDA2050		Q007 Q008 Q009 Q010	8-729-120-28 8-729-120-28 8-729-120-28 8-729-120-28	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC1623-L5L6 SC1623-L5L6 SC1623-L5L6	
	RIVET NYLON, 3.5; IC251 IC TDA2050 RIVET NYLON, 3.5; IC261 IC TEA2028B IC TDA8170 IC TEA2260 IC TEA7605 IC LM7812CT		Q251 Q261 Q271 Q502 Q505	8-729-120-28 8-729-120-28 8-729-120-28 8-729-216-22 8-729-140-96	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC1623-L5L6 SC1623-L5L6 SA1162-G SD774-34	
IC601 8-759-988-95 IC604 8-759-510-52 IC608 8-759-929-62	IC TEA2260 IC TEA7605 IC LM7812CT		Q506 Q507 Q598 Q601 Q602	8-729-140-97 8-729-216-22 8-729-216-22 8-729-122-03 8-729-209-02	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SA1162-G SA1162-G SA1220A-P	
<01	L>		Q603	8-729-122-03	TRANSISTOR 2	SA1220A-P	
L501 1-408-225-00 L601 1-420-872-00 L602 1-410-396-41 L603 1-410-396-41 L604 1-410-671-31	IC LM7812CT  L> INDUCTOR 3.3UH COIL, AIR CORE FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR INDUCTOR HOUCTOR 47UH		Q604 Q605 Q606 Q607	8-729-216-22 8-729-120-28 8-729-120-28 8-729-920-92 8-729-120-28	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SC1623-L5L6 SC1623-L5L6 SD2096-EF	
L605 1-459-585-11 L606 1-412-529-11 L607 1-410-671-31 L801 1-459-087-00	FERRITE BEAD INDUCTOR INDUCTOR 47UH  COIL (WITH CORE) (DRUM TYPE) INDUCTOR 22UH INDUCTOR 47UH COIL, HCC DUST CORE 3.9MMH (KV-A29 COIL, WITH CORE	921D)	Q609 Q801 Q804 Q805	8-729-320-62 8-729-120-28 8-729-304-50 8-729-119-80	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SD789-34 SC1623-L5L6 SD1941-06	
L804 1-408-239-00	INDUCTOR 4.7MMH			<res< td=""><td>STOR&gt;</td><td></td><td></td></res<>	STOR>		
L805 A. 1-459-652-12 A. 1-459-755-12 A. 1-459-907-22 L806 1-459-115-00	HLC (KV-A2121D) COIL, HORIZONTAL LINEARITY (KV-A2 COIL, HORIZONTAL LINEARITY (KV-A2 COIL, DCC-H (KV-A2121D)	2921D)	JR1 JR3 JR4 JR7 R001	1-216-296-00 1-216-295-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 470 5%	1/8W 1/8W 1/10W 1/8W 1/10W
1-459-111-00 1-459-087-00 1.809 1-420-872-00 L810 4.1-459-390-11 4.1-421-982-12	COIL, DRAM CORE (CDI) (KV-A2521D) COIL, HCC DUST CORE 3.9MMH (KV-A29 COIL, AIR CORE COIL (WITH CORE) (KV-A2121D) PMC (KV-A2521D)	) 921D)	R002 R003 R004 R005 R006	1-216-041-00 1-216-198-00 1-216-049-00 1-216-081-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 5% 1K 5% 1K 5% 22K 5%	1/10W 1/8W 1/10W 1/10W 1/10W
<b>△.</b> 1-421-794-51	TRANSFORMER, FERRITE (PMT) (KV-A2	2921D)	R007	1-216-065-00	METAL GLAZE		1/10W
<tra LF1601</tra 	NSFORMER>		R008 R009 R010 R012	1-216-073-00 1-216-073-00 1-216-041-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 5% 10K 5% 10K 5% 470 5% 10K 5%	1/10W 1/10W 1/10W 1/10W
LF1603 <u>A</u> 1-421-862-11 T601 <u>A</u> 1-450-038-11 <u>A</u> 1-450-037-11	LFT S.R.T (KV-A2121D,A2521D) S.R.T (KV-A2921D)		R013 R014 R015 R016		METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 5% 33K 5% 3.3K 5% 33K 5%	1/10W 1/10W 1/10W 1/10W
T602 <u>↑</u> 1-424-277-11	TRANSFORMER, TRIGGER PULSE		RO17	1-216-087-11	METAL GLAZE	39K 5%	1/10W



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R018 R019 R020 R021 R022	1-216-095-00 1-216-025-00 1-216-025-00 1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	82K 100 100 4.7K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R085 R086 R087 R088 R093	1-216-049-00 1-216-049-00 1-216-035-00 1-216-059-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 270 2.7K 10K	5% 5%%%%% 5555555	1/10W 1/10W 1/10W 1/10W 1/10W
R024 R025 R026 R027 R028	1-216-073-00 1-216-073-00 1-216-182-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 220 100 100	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/10W 1/10W		R094 R095 R096 R098 R251	1-216-073-00 1-216-073-00 1-216-073-00 1-216-049-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 10K 1K 4.7K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R029 R030 R031 R032 R033	1-216-073-00 1-216-073-00 1-216-081-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 22K 10K 10K	5%% 5%% 5%% 5%%	1/10W 1/10W 1/10W 1/10W 1/10W		R252 R253 R254 R255 R256 R257	1-216-039-00 1-216-073-00 1-216-357-00 1-216-073-00 1-216-115-00 1-216-077-00	METAL GLAZE METAL GLAZE METAL OXIDE METAL GLAZE METAL GLAZE METAL GLAZE	390 10K 4.7 10K 560K 15K	5% 5% 5% 5% 5%	1/10W 1/10W 1W F 1/10W 1/10W 1/10W
R035 R036 R037 R038	1-216-081-00 1-216-083-00 1-216-069-00 1-216-069-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 27K 6.8K 6.8K	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W		R258 R259 R261 R262 R263	1-215-869-11 1-216-065-00 1-216-065-00 1-216-039-00 1-216-073-00	METAL OXIDE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 4.7K 4.7K 390 10K	5% 5% 5% 5%	1W F 1/10W 1/10W 1/10W 1/10W
R040 R041 R042 R043	1-216-077-00 1-216-073-00 1-216-049-00 1-216-041-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	15K 10K 1K 470	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R264 R265 R266 R267 R268	1-216-357-00 1-216-073-00 1-216-115-00 1-216-077-00 1-215-869-11	METAL OXIDE METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE	4.7 10K 560K 15K 1K	5% 5% 5% 5%	1W F 1/10W 1/10W 1/10W 1W F
RO45 RO46 RO47 RO48	1-216-061-00 1-216-095-00 1-216-073-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 82K 10K 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R269 R270 R271 R272 R273	1-216-065-00 1-216-073-00 1-216-045-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 10K 680 10K 10K	5%% 5%% 5%% 5%%	1/10W 1/10W 1/10W 1/10W 1/10W
R050 R051 R052 R053	1-216-067-00 1-216-041-00 1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 470 1K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R274 R500 R501 R502 R503	1-216-073-00 1-216-115-00 1-216-041-00 1-216-033-00 1-216-035-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 560K 470 220 270	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R055 R056 R057 R058 R059	1-216-037-00 1-216-073-00 1-216-025-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330 10K 100 1K	55555 55555 55555	1/10W 1/10W 1/10W 1/10W		R504 R505 R506 R509 R510	1-249-420-11 1-216-077-00 1-216-071-00 1-216-063-00 1-216-067-00	CARBON METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.8K 15K 8.2K 3.9K 5.6K	5% 5% 5% 5%	1/4W 1/10W 1/10W 1/10W 1/10W
R060 R061 R062 R063	1-216-049-00 1-216-065-00 1-216-049-00 1-216-049-00 1-216-049-00		1K 4.7K 1K 1K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R514 R515 R517 R518 R518	1-216-033-00 1-216-061-00 1-216-073-00 1-216-089-00 1-216-081-00				1/10W 1/10W 1/10W 1/10W 1/10W
R065 R066 R067 R068	1-216-049-00 1-216-049-00 1-216-073-00 1-216-174-00 1-216-174-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 10K 100	5%% 5%% 5%% 5%%	1/10W 1/10W 1/10W 1/10W 1/8W		R520 R521 R522 R523 R524	1-216-037-00 1-216-025-00 1-215-469-00 1-216-049-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL METAL GLAZE METAL GLAZE	330 100 100K 1K 2.2K	5% 5% 1% 5%	1/10W 1/10W 1/4W 1/10W 1/10W
R070 R071 R072 R073	1-216-198-00 1-216-198-00 1-216-222-00 1-216-073-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 10K 10K 470	55555 55555	1/8W 1/8W 1/8W 1/10W		R525 R526 R527 R528	1-216-049-00 1-249-409-11 1-216-077-00 1-216-031-00	METAL GLAZE CARBON METAL GLAZE METAL GLAZE	1K 220 15K 180	5%	1/10W -A2121D, A2521D) 1/4W F 1/10W 1/10W
R076 R077 R078 R079	1-216-073-00 1-216-049-00 1-216-198-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 1K 1K 10K	5%%%%% 5555555555555555555555555555555	1/10W 1/10W 1/8W 1/10W		R529 R530 R531	1-216-069-00 1-249-448-11 1-216-099-00 1-216-049-00	METAL GLAZE CARBON METAL GLAZE METAL GLAZE	6.8K 1.2 120K	5% 5% 5%	1/10W 1/4W F 1/10W -A2521D, A2921D) 1/10W
R081 R083 R084	1-216-073-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 1K 1K	5% 5% 5%	1/10W 1/10W 1/10W		R533	1-216-031-00		180	(KV-	-A2521D, A2921D) 1/10W -A2121D)



	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R534 R535	I-216-295-00 1-216-119-00 1-249-753-15	METAL GLAZE METAL GLAZE CARBON	0 820K 4.7M	(KV 5%	1/10W -A2521D,A2921D) 1/10W 1/4W	R605 R606 R607	1-216-081-00 1-216-051-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 1.2K 4.7K	5%	1/10W 1/10W 1/10W /-A2121D,A2521D)
R536	1-249-749-00 1-216-129-00	CARBON METAL GLAZE	2.2M 2.2M	(KV	(KV-A2121D) 1/4W -A2521D,A2921D) 1/10W	R608	1-216-067-00 1-216-488-11	METAL GLAZE METAL OXIDE	5.6K 18K	5% (X)	1/10W (KV-A2921D)
K537	1-216-083-00	METAL GLAZE	27K	5%	1/10W	R609 R610	1-216-007-00 1-244-941-00	METAL GLAZE CARBON	18 680K	5% 5%	1/10W 1/2W
R538 R539 R540 R541 R542	1-216-101-00 1-216-101-00 1-216-013-00 1-216-091-00 1-216-308-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	150K 150K 33 56K 4.7	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R611 R612 R613 R614	1-216-015-00 1-216-049-00 1-216-097-00 1-205-758-11	METAL GLAZE METAL GLAZE METAL GLAZE WIREWOUND	39 1K 100K 100	5% 5% 5%	1/10W 1/10W 1/10W 10W F
R543 R544 R545	1-249-451-11 1-247-745-11 1-216-689-11	CARBON CARBON METAL GLAZE	2.2 330 39K	5% 5% 5%	1/4W 1/2W 1/10W	R616 R617 R618	1-216-099-00 1-216-037-00 1-216-431-11	METAL GLAZE METAL GLAZE METAL OXIDE	120K 330 560	5% 5% 5%	1/10W 1/10W 1W F
	1-216-081-00	METAL GLAZE	22K	5% (KV	(KV-A2121D) 1/10W -A2521D, A2921D)	R619 R620 R621 R622	1-216-073-00 1-216-081-00 1-216-077-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 22K 15K 10K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R546 R <b>547</b>	1-216-083-00 1-216-067-00	METAL GLAZE METAL GLAZE	27K 5.6K	5%	1/10W 1/10W (KV-A2121D)	R623	1-216-081-00	METAL GLAZE	22K 5.6K	5%	1/10W 1/10W
	1-216-061-00	METAL GLAZE	3.3K	(KV	1/10W -A2521D,A2921D)	R625 R626 R628	1-215-865-11 1-216-037-00 1-216-001-00	METAL OXIDE METAL GLAZE METAL GLAZE	220 330 10	5% 5% 5% 5%	1W F 1/10W 1/10W
R548	1-216-350-11 1-216-349-00	METAL OXIDE	1.2	5% 5%	1W F (KV-A2121D) 1W F	R629 R631	1-216-037-00 1-216-465-11	METAL GLAZE METAL OXIDE	330 27K	5%	1/10W 2W
R549	1-215-890-11	METAL OXIDE	470	(KV 5%	-A2521D, A2921D) 2W F (KV-A2121D)	R633 R634 R635	1-216-049-00 1-216-430-11 1-216-073-00	METAL GLAZE METAL OXIDE METAL GLAZE	1 K 390 10 K	5% 5% 5% 5%	-A2121D, A2521D) 1/10W 1W F 1/10W
	1-216-454-11	METAL OXIDE	390	5% (KV	2W F	R636	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R550	1-216-095-00	METAL GLAZE	82K	5%		R643	1-217-190-21	WIREWOUND	0.15	5%	2W F (KV-A2121D)
R551 R552	1-216-129-00 1-216-433-00	METAL GLAZE METAL OXIDE	2.2M 1.2K	5% 5%	1/10W 1W F (KV-A2121D)		1-217-189-21	WIREWOUND	0.12	5% (KV	2W ₹ -A2521D, A2921D)
R553 R554	1-215-869-11 1-216-037-00	METAL OXIDE METAL GLAZE	1K 330	5% 5%	1W 1/10W	R651 R653 R802	1-216-025-00 1-205-758-11 1-249-443-11	WIREWOUND CARBON	100 100 0.47	5% 10% 5%	1/10W 10W F 1/4W F
R555 R556 R557	1-216-129-00 1-216-025-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2M 100 4.7K	5% 5%	1/10W 1/10W 1/10W 1/10W	R806		CARBON METAL GLAZE	1.2 68K	5% 5%	1/4W F 1/10W
R558 R559 R560	I-216-113-00 I-216-069-00 I-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE	470K 6.8K 330	2.6	1/10W 1/10W 1/10W	R807 R809 R810 R811	1-217-778-11 1-202-821-11 1-202-818-00 1-215-863-11	FUSIBLE SOLID SOLID METAL OXIDE	1.8K 1.8K 1K 100	5% 10% 10% 5%	1W F 1/2W 1/2W 1W F
R561	1-216-107-00	METAL GLAZE	270K	5 <b>%</b>	1/10W (KV-A2921D)	1011	1 213 003 11	HEIRE ONIDE	100	J/6	(KV-A2121D)
R570	1-216-045-00	METAL GLAZE	680	5%	1/10W (KV-A2921D)		1-215-882-00	METAL OXIDE	22	5% (KV	2W F -A2521D, A2921D)
R591	1-216-047-00	METAL GLAZE	820	5%	1/10W	R812	1-247-285-00	CARBON	75K	5%	1/2W (KV-A2121D)
R592 R593	1-216-049-00 1-216-053-00	METAL GLAZE METAL GLAZE	1K 1.5K	5% 5% 5% 5%	1/10W 1/10W		1-249-494-11	CARBON	68K	5%	1/2W
R594 R597	1-216-071-00 1-216-041-00	METAL GLAZE METAL GLAZE	8.2K 470	5% 5%	1/10W 1/10W		1-247-281-00	CARBON	51K	5%	(KV- A2521D) 1/2W (KV- A2921D)
R598 R600	1-215-900-11 1-249-381-11	METAL OXIDE CARBON	22K 1	5% 5% (KV	2W F 1/4W -A2521D,A2921D)	R815 R816	1-215-884-11 1-215-868-00	METAL OXIDE	<b>47</b> 680	5% 5%	2W F 1W F
R601 R603	1-216-353-00 1-215-906-11	METAL OXIDE METAL OXIDE	2.2 15	5% 5%	1W F 3W F	R817 R820 R821	1-216-049-00 1-249-403-11 1-247-725-11	METAL GLAZE CARBON CARBON	1K 68 10K	5% 5% 5%	1/10W 1/4W 1/4W F
	1-216-469-11	METAL OXIDE	12	5%	(KV-A2121D)	R822 ∆. R825	.1-217-778-61 1-216-349-00	FUSIBLE METAL OXIDE	1 K 1	5% 5%	IW F IW F
R604	1-216-025-00	METAL GLAZE	100	5% 5%	-A2521D, A2921D) 1/10W		1-216-345-11	METAL OXIDE	0.47	5% (KV-	(KV- A2121D) 1W F -A2521D, A2921D)



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REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO	. PART NO.	DESCRIPTION				REMARK
R826 R827 R828 R829	1-216-097-00 1-216-073-00 1-216-059-00 1-216-051-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARBON	100K 5% 10K 5% 2.7K 5% 1.2K 5%	1/10W 1/10W 1/10W 1/10W		R751 R752 R753 R754 R755	1-249-418-11 1-249-426-11 1-249-414-11 1-249-434-11 1-249-405-11	CARBON CARBON CARBON CARBON CARBON	1.2K 5.6K 560 27K 100	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1601 A R1602 A R1603 A	1-249-451-11 \[ \lambda 1-246-513-75 \] \[ \lambda 1-244-945-91 \] \[ \lambda 1-217-328-11 \] \[ \lambda 1-246-513-75 \]	CARBON CARBON WI REWOUND CARBON	47K 5% 1M 5% 2.7 10% 47K 5%	1/4W 1/2W 7W 1/4W	F .	R756 R757 R758 R760 R761	1-249-419-11 1-249-405-11 1-249-409-11 1-249-411-11 1-249-429-11	CARBON CARBON CARBON CARBON CARBON	1.5K 100 220 330 10K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R5501	1-218-265-91 1-216-073-00 1-216-308-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	8.2M 5% 10K 5% 4.7 5% 10 5%	1/10W	D, A2521D)	R762 R763 R764 R765 R766	1-247-895-00 1-249-429-11 1-249-455-11 1-249-455-11 1-247-753-11	CARBON CARBON CARBON CARBON CARBON	470K 10K 4.7 4.7 1.2K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/2W	F F
	1-216-121-00 1-216-001-00 1-216-075-00	METAL GLAZE METAL GLAZE METAL GLAZE	1M 5% 10 5% 12K 5%	1/10W 1/10W 1/10W		R767 R768 R769	1-247-751-11 1-215-887-00 <u>A</u> . 1-212-889-51	CARBON METAL OXIDE FUSIBLE	820 150 <b>220</b>	5% 5% 5%	1/2W 2W 1/4W	F F
	< <b>V</b>	TABLE RESISTO	R>				<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td></td></con<>	NECTOR>				
RV501 RV502	1-238-013-11 1-238-016-11 1-238-011-11	RES, ADJ, CA RES, ADJ, CA RES, ADJ, CA	RBON 2.2K RBON 10K			VM73 VM88	*1-568-878-51 *1-568-878-51	PIN, CONNECTO	DR 3P			
RV601	1-230-011-11	nes, and, ca	ndon 470			*****	************** *A-1645-013-A			****	*****	******
	<spa< td=""><td>RK GAP&gt;</td><td></td><td></td><td></td><td></td><td>*N 1040"010"N</td><td>**********</td><td></td><td></td><td></td><td></td></spa<>	RK GAP>					*N 1040"010"N	**********				
SG801	1-519-422-11	GAP, SPARK					<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td></td></cap<>	ACITOR>				
	<the< td=""><td>RMISTOR&gt;</td><td></td><td></td><td></td><td>  c1</td><td>1-126-101-11</td><td>ELECT</td><td>100<b>M</b>F</td><td></td><td>20%</td><td>16V</td></the<>	RMISTOR>				c1	1-126-101-11	ELECT	100 <b>M</b> F		20%	16V
THP601	<u> </u>	THERMISTOR,	POSITIVE			C2 C3	1-163-038-00 1-124-120-11	CERAMIC CHIP	220MF		20%	25V 16V
*****	********	*******	********	******	******	C4 C5	1-163-0 <b>7</b> 7-00 1-12 <b>4</b> -120-11	CERAMIC CHIP ELECT	0.1MF 220MF		20%	50V 16V
:	*1-634-193-11	VM BOARD (KV ******	-A2921D)			C6 C10 C11 C12	1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF 0.1MF			25V 25V 25V 25V
		ACITOR>				C13	1-163-038-00	CERAMIC CHIP	0.1MF			25 <b>V</b>
C751 C752 C753 C754 C757	1-101-361-00 1-108-629-11 1-137-047-11 1-102-980-00 1-108-692-11	CERAMIC MYLAR FILM CERAMIC MYLAR	150PF 0.018MF 0.01MF 270PF 0.01MF	5% 10% 10% 5% 10%	50V 100V 400V 50V 200V	C14 C15 C16 C17 C18	1-124-927-11 1-124-927-11 1-163-141-00 1-163-141-00 1-163-141-00		0.001M	ą.	20% 20% 5% 5% 5%	50V 50V 50V 50V 50V
C759 C760 C761 C762	1-124-907-11 1-124-917-11 1-101-006-00 1-137-047-11	BLBCT BLBCT CBRAMIC FILM	10MF 33MF 0.047MF 0.01MF	20% 20% 10%	50V 50V 50V 400V	C26 C27 C28 C29 C32	1-163-038-00 1-163-117-00 1-163-117-00 1-163-117-00 1-163-038-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	100PF 100PF 100PF		5% 5% 5%	25V 50V 50V 50V 25V
	<01	L>				C33	1-163-038-00	CERAMIC CHIP	0.1MF			25V
L751 L770	1-408-413-00 1-410-665-31	INDUCTOR	22UH 15UH				< CUN	NECTOR>				
, 0		INSISTOR>	13011			CNV1 CNV2	*1-565-393-11	CONNECTOR, BO				
Q751	8-729-119-78	TRANSISTOR 2				 						
U752 U753 U754	8-729-119-78 8-729-140-97 8-729-140-96	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SB734-34			D1 D3	<p10 8-719-105-91 8-719-914-44</p10 	DE> DIODE RD5.6M- DIODE DAP202K				
	<res< td=""><td>SISTOR&gt;</td><td></td><td></td><td></td><td>D4 D5</td><td>8-719-400-18 8-719-914-44</td><td>DIODE MA152WK DIODE DAP202K</td><td></td><td></td><td></td><td></td></res<>	SISTOR>				D4 D5	8-719-400-18 8-719-914-44	DIODE MA152WK DIODE DAP202K				

The components identified by shading and mark  $\triangle$  are critical for safety. Replace only with part number specified.



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
D7 8-719-105-52 D9 8-719-106-17	DIODE MA152WK DIODE RD3.6M-B2 DIODE RD6.8M-B2		R7 R8 R9 R02 R10	1-216-308-00 1-216-214-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	27K 5% 8.2K 5% 4.7 5% 4.7K 5% 120 5%	1/10W 1/10W 1/10W 1/8W 1/4W	
IC2 8-759-045-54	IC SDA20162-B002 IC SAA5246P/B/M4A IC FCB61C65L-70P		R11 R12 R13 R14 R15	1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	120 5% 120 5% 100 5% 10 5% 33 5%	1/4W 1/4W 1/10W 1/10W 1/10W	
C01 L1 1-408-403-00 L2 1-408-407-00 L3 1-408-407-00 L4 1-408-407-00	L> INDUCTOR 3.3UH INDUCTOR 6.8UH INDUCTOR 6.8UH INDUCTOR 6.8UH		R16 R17 R18 R19 R20	1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	33 5% 33 5% 100 5% 100 5% 470 5%		
<10	LINK>		R21 R22 R23 R24 R25	1-216-168-00 1-216-214-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 5% 56 5% 4.7K 5% 1.8K 5% 4.7K 5%	1/10W 1/8W 1/8W 1/10W 1/10W	
<tra Q1 8-729-900-53 Q2 8-729-920-92</tra 	TRANSISTOR DTC114EK TRANSISTOR 2SD2096-EF		R26 R27 R28 R34 R35	1-216-214-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 5% 4.7K 5% 5.6K 5% 4.7K 5% 4.7K 5%	1/10W 1/8W 1/10W 1/10W 1/10W	
Q3 8-729-120-28 Q4 8-729-120-28 Q5 8-729-807-87 Q6 8-729-807-87 Q7 8-729-807-87	TRANSISTOR DTC114EK TRANSISTOR 2SD2096-EF TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SB1295-UL6 TRANSISTOR 2SB1295-UL6 TRANSISTOR 2SB1295-UL6 TRANSISTOR 2SB1295-UL6 TRANSISTOR 2SB1295-UL6 TRANSISTOR 2SC1623-L5L6		R40 R41 R42 R44 R46	1-216-065-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 5% 4.7K 5% 1K 5% 0 5% 4.7K 5%	1/10W	
	TRANSISTOR 2SC1623-L5L6 SISTOR>		R47 R49 R50	1-216-065-00 1-216-049-00 1-216-296-00	METAL GLAZE	4.7K 5% 1K 5% 0 5%	1/10W 1/10W 1/8W	
JR01 1-216-295-00 JR02 1-216-295-00 JR03 1-216-295-00 JR08 1-216-295-00 JR09 1-216-295-00	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/10W 1/10W 1/10W 1/10W	RV1		IABLE RESISTOR			
JR11 1-216-295-00 JR14 1-216-296-00 JR17 1-216-295-00 JR18 1-216-296-00 JR19 1-216-296-00	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/8W 1/10W 1/8W 1/8W	X2	1-579-266-31	VIBRATOR, CER	IAMI C	*****	******
JR20	METAL GLAZE 0 5%	1/8W 1/8W 1/10W 1/8W 1/8W		*1-638-391-11				
JR26 1-216-296-00 JR201 1-216-295-00 JR204 1-216-295-00 JR207 1-216-295-00 JR208 1-216-295-00	METAL GLAZE 0 5%	1/8W 1/10W 1/10W 1/10W 1/10W	C1653	1-102-106-00 1-102-106-00 1-102-074-00 1-102-074-00	CERAMIC CERAMIC CERAMIC	100PF 100PF 0.001MF 0.001MF	10% 10%	50V 50V 50V 50V
JR211	METAL GLAZE 0 5%	1/10W 1/10W 1/8W 1/10W 1/10W	H1-02	<con *1-568-881-51 1-568-678-11 *1-568-879-51</con 	NECTOR> PIN, CONNECTO TERMINAL BLOC PIN, CONNECTO	CK, S 3P		
R1 1-218-326-11 R3 1-216-049-00 R4 1-216-025-00 R5 1-216-047-00 R6 1-216-001-00	METAL GLAZE 470 5% METAL GLAZE 1K 5% METAL GLAZE 100 5% METAL GLAZE 820 5% METAL GLAZE 10 5%	1/2W 1/10W 1/10W 1/10W 1/10W	H1-05 H1-23	1-562-837-11 *1-568-879-51 *1-564-512-11	JACK PIN, CONNECTO	R 4P		

# H1 H2 J1

REF.NO. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
<pre><res r1651<="" td=""><td>CARBON 470 CARBON 470</td><td>0 5% 0 5%</td><td>1/4W 1/4W</td><td></td><td>C228 C229 C230</td><td>1-137-104-11 1-137-049-11 1-137-049-11</td><td>FILM FILM FILM</td><td>0.033MF 0.015MF 0.015MF</td><td>10% 10% 10%</td><td>250V 400V 400V</td></res></pre>	CARBON 470 CARBON 470	0 5% 0 5%	1/4W 1/4W		C228 C229 C230	1-137-104-11 1-137-049-11 1-137-049-11	FILM FILM FILM	0.033MF 0.015MF 0.015MF	10% 10% 10%	250V 400V 400V
					C231 C232 C233 C234 C235	1-124-902-00 1-124-907-11 1-163-005-11 1-163-005-11 1-163-005-11	ELECT	0.47MF 10MF 470PF 470PF	20% 20% 10% 10% 10%	50V 50V 50V 50V 50V
\$1652 1-571-532-21 \$1653 1-571-532-21	SWITCH, TACTIL SWITCH, TACTIL	******	*****	******	C236 C237 C238 C239	1-163-005-11 1-124-902-00 1-163-125-00 1-126-103-11	CERAMIC CHIP ELECT CERAMIC CHIP ELECT	470PF 0.47MF 220PF 470MF	10% 20% 5% 20%	50V 50V 50V 16V
*1-638-392-11 *4-374-987-01 *4-381-686-01	H2 BOARD *******  GUIDE, LIGHT BRACKET (B), LIG	HT GUIDE			C240 C241 C242 C243	1-163-018-00 1-163-018-00 1-163-033-00 1-163-033-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.0056MF 0.0056MF 0.022MF 0.022MF	10% 10%	50V 50V 50V 50V
<010	IDE>				C244 C245 C1401	1-163-033-00 1-163-033-00 1-124-907-11	CERAMIC CHIP CERAMIC CHIP	0.022MF 0.022MF 10MF	20%	50V 50V 50V
D1651 8-719-948-31 *4-201-076-01 D1652 8-719-948-31 *4-201-076-01 D1654 8-719-948-31	DIODE LD-201VR HOLDER, LED; D16 DIODE LD-201VR HOLDER, LED; D16 DIODE LD-201VR	51 52			C1402 C1403 C1404 C1405	1-126-103-11 1-163-003-11 1-137-098-11 1-163-029-11	ELECT CERAMIC CHIP FILM CERAMIC CHIP	470MF 330PF 0.1MF 0.0047MF	20% 10% 10%	16V 50V 100V 50V
<pre></pre>	HOLDER, LED; D16	54			C1406 C1407 C1408 C1409 C1410	1-137-098-11 1-124-910-11 1-124-122-11 1-126-233-11 1-124-907-11	FILM ELECT ELECT ELECT ELECT	0.1MF 47MF 100MF 22MF 10MF	10% 20% 20% 20% 20% 20%	100V 50V 50V 50V 50V
H2-2 *1-568-882-51 <1C>	PIN, CONNECTOR 7	р			C1411 C1412 C1413 C1414	1-124-907-11 1-124-910-11 1-124-910-11 1-124-907-11	ELECT ELECT ELECT ELECT	10MF 47MF 47MF 10MF	20% 20% 20% 20%	50V 50V 50V 50V
1C1651 8-741-101-75	IC SBX1610-11				C1416 C1417	1-137-098-11 1-137-098-11 1-124-120-11	FILM ELECT	0.1MF 220MF	10% 10% 20%	100V 100V 16V
R1662 1-249-413-11	CARBON 47	0 5%	1/4W		C1419 C1425	1-163-003-11 1-124-902-00	CERAMIC CHIP ELECT	330PF 0.47MF	10% 10% 20%	50V 50V 50V
	J1 BOARD, COMPLE************************************	TE (KV-A2 ** TE (KV-A2	2121D, A2	2521D)	C1427 C1428 C1429	1-124-902-00 1-163-029-11 1-163-029-11 1-163-003-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.0047MF 0.0047MF 0.0047MF	20%	50V 50V 50V 50V 50V
<cap C203 1-124-925-11</cap 	PACITOR> ELECT 2.2	M C	20%	50 <b>V</b>	C1432 C1433 C1436	1-126-529-11 1-124-902-00 1-124-122-11 1-163-009-11 1-163-009-11	ELECT ELECT ELECT CERAMIC CHIP CERAMIC CHIP	0.47MF 0.47MF 100MF 0.001MF	20% 20% 20% 10% 10%	50V 50V 50V 50V 50V
C205 1-124-925-11 C206 1-124-925-11 C207 1-124-927-11 C213 1-126-233-11	ELECT 4.71 ELECT 2.21 ELECT 4.71 ELECT 22M	MF MF MF	20% 20% 20% 20% 20%	50V 50V 50V 50V	C1438 C1439 C1440	1-137-047-11 1-137-047-11 1-124-907-11 1-124-907-11	FILM FILM ELECT ELECT	0.01MF 0.01MF 10MF 10MF	10% 10% 20% 20%	400V 400V 50V 50V
C214 1-137-045-11 C217 1-137-045-11 C218 1-137-102-11 C219 1-137-102-11 C220 1-108-686-11	FILM 0.00 FILM 0.00 FILM 0.00	068MF 22MF 22MF	10% 10% 10% 10% 10%	400V 400V 250V 250V 100V	C1442 C1443 C1444 C1445	1-137-098-11 1-137-098-11 1-124-910-11 1-102-824-00	FILM FILM ELECT CERAMIC	0.1MF 0.1MF 47MF 470PF	10% 10% 20% 5%	100V 100V 50V 50V
C221 1-108-686-11 C222 1-137-095-11 C223 1-137-095-11 C224 1-137-047-11	FILM 0.09 FILM 0.09 FILM 0.0	56MF 56MF 1MF	10% 10% 10% 10%	100V 100V 100V 400V	C1501 C1502 C1503		CERAMIC ELECT ELECT MYLAR	470PF 4.7MF 1MF 0.001MF	20% 20% 10%	50V 50V 50V 100V
C225 1-136-173-00 C226 1-136-173-00 C227 1-137-102-11	FILM 0.4' FILM 0.02	7MF	5% 5% 10%	50V 50V 250V	C1505	1-124-910-11 1-137-094-11 1-108-686-11	ELECT FILM MYLAR	47MF 0.047MF 0.0033MF	20% 10% 10%	50V 100V 100V

REMARK

RÉF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			F -
C1509 C1511	1-124-903-11 1-124-927-11	ELECT	1MF 1MF 4.7MF 0.0068MF	20% 20% 20% 10% (KV-A2121	50V 50V 50V 400V D, A2521D)	<b>Q</b> 201	8-729-120-28	NSISTOR> TRANSISTOR 2S			
C1513 C1514		CERAMIC CHIP		5% 10% (KV-A2121) 10%	50V 250V D,A2521D) 50V	Q202 Q1401 Q1402 Q1403	8-729-120-28 8-729-216-22 8-729-120-28 8-729-120-28	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	A1162- C1623-	G L5L6	
C1515	1-102-117-00	CONAMIC	02011	(KV-A2121	D, A2521D)	Q1404	8-729-216-22	TRANSISTOR 2S	A1162-	G	
	<con!< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td></td><td><res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td></res<></td></con!<>	NECTOR>					<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td></res<>	ISTOR>			
J1-41 J1-43 J1-44	1 1-565-838-11 *1-566-641-11 *1-564-524-11 *1-564-527-11 *1-566-641-11	CONNECTOR, H PLUG, CONNEC PLUG. CONNEC	PIN 2P INGE (TAB) TOR 9P TOR 12P INGE (TAB)	18P		R201 R202 R203 R204 R205	1-216-079-00 1-216-206-00 1-216-075-00 1-216-085-00 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	18K 2.2K 12K 33K 33K	5% 5% 5% 5%	1/10W 1/8W 1/10W 1/10W 1/10W
	<010					R207	1-216-061-00 1-216-061-00	METAL GLAZE METAL GLAZE	3.3K 3.3K	5% 5%	1/10W 1/10W
D201 D202	8-719-110-14 8-719-110-14	DIODE RD9.1E	S-B3 S-B3			R208 R209 R210	1-216-077-00 1-216-081-00 1-216-077-00	METAL GLAZE METAL GLAZE METAL GLAZE	15K 22K 15K	5% 5% 5% 5%	1/10W 1/10W 1/10W
D205 D206 D1401	8-719-110-03 8-719-110-03	DIODE RD7.5E DIODE RD7.5E DIODE RD7.5E	S-B2 S-B2			R211 R212	1-216-097-00 1-216-081-00 1-216-077-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 22K 15K	5% 5% 5% 5%	1/10W 1/10W 1/10W
D1403 D1404	8-719-110-03 8-719-110-03	DIODE RD7.5E	S-B2			R213 R214 R215	1-216-077-00 1-216-033-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 22K	5% 5%	1/10W 1/10W
D1405 D1406 D1407	8-719-110-03 8-719-110-03 8-719-921-77	DIODE RD7.5E DIODE RD7.5E DIODE MTZN-I	S-B2			R216 R217 R218	1-216-081-00 1-216-077-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 15K 220	5% 5% 5% 5%	1/10W 1/10W 1/10W
D1408 D1409 D1410	8-719-110-14 8-719-110-14 8-719-110-14	DIODE RD9.18 DIODE RD9.18 DIODE RD9.18	S-B3			R219 R220	1-216-073-00 1-216-057-00	METAL GLAZE METAL GLAZE	10K 2.2K	5% 5%	1/10W 1/10W
D1415 D1418	8-719-110-03 8-719-110-03	DIODE RD7.5E	S-B2 S-B2			R221 R222 R223	1-216-041-00 1-216-041-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	470 470 1 K	5% 5%	1/10W 1/10W 1/10W
D1419 D1420 D1421	8-719-110-03 8-719-110-03 8-719-110-03	DIODE RD7.5E DIODE RD7.5E DIODE RD7.5E	S-B2 S-B2			R224 R225	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 K	5% 5%	1/10W 1/10W 1/10W
D1422 D1423 D1424	8-719-110-03 8-719-110-03 8-719-110-03	DIODE RD7.5E	S-B2			R226 R227 R228 R229	1-216-049-00 1-216-033-00 1-216-033-00 1-216-075-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 220 12K	5% 5% 5% 5%	1/1(W 1/1(W 1/1(W 1/1(W
D1425 D1426	8-719-110-03 8-719-110-03	DIODE RD7.5E	S-B2 S-B2			R230	1-216-079-00	METAL GLAZE	18K	5%	1/1 (W 1/1 (W
D1501 D1502	8-719-300-33 8-719-911-19	DIODE RU-3AN DIODE 188119	)			R231 R232 R233 R234	1-216-073-00 1-216-073-00 1-216-057-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 2.2K 2.2K	5% 5% 5%	1/1 (W 1/1 (W 1/1 (W 1/1 (W
D1503 D1504 D1505	8-719-911-19 8-719-911-19 8-719-911-19	DIODE ISSIIS DIODE ISSIIS DIODE ISSIIS	) )			R235	1-216-295-00	METAL GLAZE	0	5% 5%	1/1 (W
D1506 D1507	8-719-982-33 8-719-911-19	DIODE MTZJ-3 DIODE 188119	)			R236 R240 R241	1-216-295-00 1-216-033-00 1-216-091-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 220 56K	5% 5%	1/1 (W 1/1 (W 1/1 (W
D1510	8-719-911-19	DIODE 188119	)			R242 R243	1-216-091-00 1-216-075-00	METAL GLAZE METAL GLAZE	56K 12K	5% 5%	1/1 (W 1/1 (W
10201	<1C> 8-759-013-17					R244 R245 R246	1-216-067-00 1-216-075-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 12K 5.6K	5% 5% 5%	1/10) 1/10) 1/10)
101401 101402	1 8-752-053-17 2 8-759-946-32	IC CXAIIIAP IC TEA2014A IC UPD4053B0	•			R247 R248	1-216-075-00 1-216-067-00	METAL GLAZE METAL GLAZE	12K 5.6K	5% 5%	1/1 W 1/1 W
101501	3 8-759-140-53 1 8-759-942-16	IC TEA2031A	•			R249 R250 R1400	1-216-075-00 1-216-067-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	12K 5.6K 0	5% 5% 5%	1/1 W 1/1 W 1/1 W
(1.40°)	<ja(< td=""><td></td><td></td><td></td><td></td><td>R1401 R1402</td><td>1-216-023-00 1-216-170-00</td><td>METAL GLAZE METAL GLAZE</td><td>82 68</td><td>5% 5% 5%</td><td>1/1 W 1/8 V</td></ja(<>					R1401 R1402	1-216-023-00 1-216-170-00	METAL GLAZE METAL GLAZE	82 68	5% 5% 5%	1/1 W 1/8 V
J1402 J1403	1-561-534-41 1-561-534-41	SOCKET 21P SOCKET 21P				R1403	1-216-089-00	METAL GLAZE	47K	5%	1/1 W

## J1 IFG

REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO. PART NO. DESCRIPTION REMARK
R1404 1-216-178-00 R1405 1-249-434-11 R1407 1-216-113-00 R1408 1-216-089-00 R1409 1-216-041-00	CARBON 27 METAL GLAZE 47 METAL GLAZE 47 METAL GLAZE 47	OK 5% K 5% O 5%	1/8W 1/4W 1/10W 1/10W 1/10W	R1478 1-216-113-00 METAL GLAZE 470K 5% 1/10W  R1480 1-216-190-00 METAL GLAZE 470 5% 1/8W  R1482 1-216-178-00 METAL GLAZE 150 5% 1/8W  R1483 1-216-178-00 METAL GLAZE 150 5% 1/8W  R1484 1-216-073-00 METAL GLAZE 10K 5% 1/10W  R1485 1-216-073-00 METAL GLAZE 10K 5% 1/10W
R1410 1-216-089-00 R1411 1-216-041-00 R1412 1-216-089-00 R1413 1-216-113-00 R1414 1-216-089-00	METAL GLAZE 47.	0 5% K 5% OK 5% K 5%	1/4W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	R1484 1-216-073-00 METAL GLAZE 10K 5% 1/10W  R1485 1-216-073-00 METAL GLAZE 10K 5% 1/10W  R1486 1-216-065-00 METAL GLAZE 10K 5% 1/10W  R1487 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W  R1489 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W  R1489 1-216-065-00 METAL GLAZE 2 4.7K 5% 1/10W  R1501 1-216-081-00 METAL GLAZE 22K 5% 1/10W
R1415 1-216-083-00 R1416 1-216-083-00 R1417 1-216-023-00 R1418 1-247-738-11 R1419 1-216-295-00		K 5% 5% 5%	1/10W 1/2W F 1/10W	R1502 1-216-083-00 METAL GLAZE 27K 5% 1/10W R1503 1-216-113-00 METAL GLAZE 470K 5% 1/10W R1504 1-216-085-00 METAL GLAZE 33K 5% 1/10W R1505 1-216-081-00 METAL GLAZE 22K 5% 1/10W
R1420 1-216-295-00 R1421 1-216-295-00 R1422 1-216-025-00 R1423 1-216-083-00 R1424 1-216-083-00	METAL GLAZE 0 METAL GLAZE 10 METAL GLAZE 27 METAL GLAZE 27	0 5% K 5% K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1509 1-216-105-00 METAL GLAZE 220K 5% 1/10W R1510 1-216-067-00 METAL GLAZE 5.6K 5% 1/10W R1511 1-216-049-00 METAL GLAZE 1K 5% 1/10W R1512 1-216-073-00 METAL GLAZE 10K 5% 1/10W
R1425 1-216-045-00 R1426 1-216-025-00 R1427 1-216-001-00 R1428 1-216-113-00 R1429 1-216-113-00	METAL GLAZE 10 METAL GLAZE 10 METAL GLAZE 47 METAL GLAZE 47	0 5½ 5% 0K 5% 0K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1514 1-216-049-00 METAL GLAZE 1K 5% 1/10W R1515 1-216-117-00 METAL GLAZE 680K 5% 1/10W (KV-A2121D,A2521D) R1516 1-216-079-00 METAL GLAZE 18K 5% 1/10W
R1430 1-216-170-00 R1431 1-216-041-00 R1432 1-216-041-00 R1433 1-216-033-00 R1434 1-249-393-11	METAL GLAZE 470 METAL GLAZE 470 METAL GLAZE 220 CARBON 10	0 5% 0 5% 5%	1/8W 1/10W 1/10W 1/10W 1/4W F	R1517 1-216-033-00 METAL GLAZE 220 5% 1/10W  R1519 1-216-101-00 METAL GLAZE 150K 5% 1/10W  R1520 1-216-113-00 METAL GLAZE 470K 5% 1/10W  (KV-A2121D, A2521D)  1-216-111-00 METAL GLAZE 390K 5% 1/10W
R1437 1-249-434-11 R1440 1-216-045-00 R1441 1-216-045-00 R1442 1-216-089-00 R1443 1-216-089-00	CARBON 27 METAL GLAZE 68 METAL GLAZE 68 METAL GLAZE 47 METAL GLAZE 47	0 5% 0 5% K 5%	1/4W 1/10W 1/10W 1/10W 1/10W	(KV-A2921D)  R1521 1-216-214-00 METAL GLAZE 4.7K 5% 1/8W R1550 1-216-349-00 METAL OXIDE 1 5% 1W F (KV-A2921D)  R1556 1-216-067-00 METAL GLAZE 5.6K 5% 1/10W
R1444 1-216-033-00 R1445 1-216-095-00 R1446 1-216-033-00 R1447 1-216-033-00 R1448 1-216-025-00	METAL GLAZE 22: METAL GLAZE 82: METAL GLAZE 22: METAL GLAZE 22: METAL GLAZE 10:	K 5% O 5%	1/10W 1/10W 1/10W 1/10W 1/10W	<pre><variable resistor=""></variable></pre>
R1449 1-216-023-00 R1452 1-216-049-00 R1453 1-216-049-00 R1454 1-216-180-00 R1455 1-216-180-00	METAL GLAZE 82 METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 180 METAL GLAZE 180		1/10W 1/10W 1/10W 1/10W 1/10W 1/8W 1/8W	RV1506 1-238-017-11 RES. ADJ. CARBON 22K
R1457 1-216-025-00 R1459 1-216-025-00 R1460 1-216-053-00 R1461 1-216-190-00 R1462 1-216-057-00	METAL GLAZE 100 METAL GLAZE 1.00 METAL GLAZE 1.1 METAL GLAZE 470 METAL GLAZE 2.1	5% 5K 5%	1/10W 1/10W 1/10W 1/8W 1/10W	RV1507 1-238-009-11 RES, ADJ, CARBON 220 RV1508 1-238-016-11 RES, ADJ, CARBON 10K RV1509 1-238-023-11 RES, ADJ, CARBON 470K
R1463 1-216-049-00 R1464 1-216-061-00 R1465 1-216-023-00 R1466 1-216-033-00 R1467 1-216-025-00	METAL GLAZE 1K METAL GLAZE 3.: METAL GLAZE 82 METAL GLAZE 220 METAL GLAZE 100	5% 3K 5% 5% 0 5%	1/10W 1/10W 1/10W 1/10W 1/10W	*A-1654-004-A IFG BOARD, COMPLETE  ************************** <capacitor></capacitor>
R1468 1-216-025-00 R1469 1-216-025-00 R1470 1-216-025-00 R1471 1-216-023-00 R1472 1-216-023-00	METAL GLAZE 100 METAL GLAZE 100 METAL GLAZE 100 METAL GLAZE 82 METAL GLAZE 82	0 5% 0 5% 0 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C1 1-163-031-11 CERAMIC CHIP 0.01MF 50V C2 1-163-031-11 CERAMIC CHIP 0.01MF 50V C3 1-163-031-11 CERAMIC CHIP 0.01MF 50V C4 1-163-031-11 CERAMIC CHIP 0.01MF 50V C5 1-163-031-11 CERAMIC CHIP 0.01MF 50V
R1473 1-216-023-00 R1474 1-216-113-00 R1476 1-216-089-00 R1477 1-216-089-00	METAL GLAZE 82 METAL GLAZE 47 METAL GLAZE 471 METAL GLAZE 471	5% )K 5% K 5%	1/10W 1/10W 1/10W 1/10W	C6 1-163-031-11 CERAMIC CHIP 0.01MF 50V C7 1-124-903-11 BLECT 1MF 20% 50V C8 1-124-907-11 BLECT 10MF 20% 50V C9 1-130-471-00 MYLAR 0.001MF 5% 50V C10 1-163-121-00 CERAMIC CHIP 150PF 5% 50V

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REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NC	. PART NO.	DESCRIPTION				REMARK
C11 C12 C13 C14 C15	1-163-119-00 1-136-298-00 1-124-477-11 1-124-477-11 1-124-477-11	FILM ELECT ELECT	120PF 0.0033MF 47MF 47MF 47MF	5% 2% 20% 20% 20% 20%	50V 100V 16V 16V 16V	JR8	1-216-296-00	. ISTOR> METAL GLAZE	0	5% 5%	1/8W 1/8W	
C16 C17 C18 C19 C20	1-124-477-11 1-124-907-11 1-137-047-11 1-137-047-11 1-126-233-11	ELECT FILM FILM	47MF 10MF 0.01MF 0.01MF 22MF	20% 20% 10% 10% 20%	16V 50V 400V 400V 50V	JR10 R1 R2 R3	1-216-296-00 1-216-045-00 1-216-043-00 1-216-043-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	680 560 560 680	5% 5% 5% 5%	1/10W 1/10W 1/10W	
C21 C22 C23 C24 C25	1-126-233-11 1-137-098-11 1-137-031-11 1-124-034-51 1-137-102-11	FILM FILM	22MF 0.1MF 0.22MF 33MF 0.022MF	20% 10% 10% 20% 10%	50V 100V 100V 16V 250V	R6 R7 R9 R11	1-216-043-00 1-216-043-00 1-216-073-00 1-216-095-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 560 10K 82K 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
C26 C27 C28 C29 C30	1-137-094-11 1-124-903-11 1-163-109-00 1-124-903-11 1-124-903-11	ELECT CERAMIC CHIP ELECT	0.047MF 1MF 47PF 1MF 1MF	10% 20% 5% 20% 20%	100V 50V 50V 50V 50V	R13 R15 R16 R17	1-216-071-00 1-216-059-00 1-216-097-00 1-216-097-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	8.2K 2.7K 100K 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
C31 C32 C33 C34 C35	1-137-047-11 1-130-479-00 1-163-081-00 1-137-031-11 1-124-907-11	FILM MYLAR CERAMIC CHIP FILM	0.01MF 0.0047MF	10% 5% 10% 20%	400V 50V 25V 100V 50V	R19 R20 R22 R24	1-216-097-00 1-216-075-00 1-216-099-00 1-216-089-00 1-216-077-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 12K 120K 120K 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
C36 C37 C38 C39	1-163-119-00 1-124-477-11 1-124-477-11 1-163-133-00	CERAMIC CHIP BLECT BLECT	120PF 47MF 47MF	5% 20% 20% 5%	50V 16V 16V 50V	RV1 RV2	<var 1-238-016-11</var 	IABLE RESISTOR	RBON 10			
	<fil< td=""><td>TER&gt;</td><td></td><td></td><td></td><td>****</td><td>******</td><td>********</td><td>*****</td><td>*****</td><td>******</td><td>******</td></fil<>	TER>				****	******	********	*****	*****	******	******
CDA1 CDA2 SFT1 SFT2	1-404-751-11 1-404-750-11 1-527-840-00 1-527-839-00	DISCRIMINATO FILTER, CERA	R, CERAMIC MIC					CELLANEOUS ********* COIL. DEMAGNE	CT I ZAT I	ON (K)	/-A2121D)	)
0.12	<d10< td=""><td>ŕ</td><td></td><td></td><td></td><td></td><td>⚠. 1-460-091-11 ⚠. 1-426-535-11 ⚠. 1-451-295-11</td><td>COIL, DEGAUSS COIL, DEGAUSS DEFLECTION YO</td><td>S (KV-A Sing (k DKE (Y2</td><td>\2521D) (V-A292 21PFA2)</td><td>21D) (KV-A2)</td><td>11<b>1</b>D)</td></d10<>	ŕ					⚠. 1-460-091-11 ⚠. 1-426-535-11 ⚠. 1-451-295-11	COIL, DEGAUSS COIL, DEGAUSS DEFLECTION YO	S (KV-A Sing (k DKE (Y2	\2521D) (V-A292 21PFA2)	21D) (KV-A2)	11 <b>1</b> D)
D3	8-719-400-18	DIODE MA152W	K			]	<b>△.</b> 1-451-311-21 <b>△.</b> 1-451-313-21	DEFLECTION YOU	OKE (Y2	29FXA)		
	<1 C>						1-452-032-00 1-452-094-00 1-452-277-00	MAGNET, ROTAT MAGNET, BMC (	TABLE [ (KV-A2]	DISK; 1 121D)		
101 102 103 104	8-759-003-90 8-759-003-90 8-759-030-48 8-759-513-48	IC TBA129 IC TDA6600-2					1-544-475-11 A. 1-590-501-11	SPEAKER			(KA-	-1 <b>2</b> 921D)
	<con< td=""><td>INECTOR&gt;</td><td></td><td></td><td></td><td>V901</td><td><b>∆.8-738-758-05</b></td><td>PICTURE TUBE</td><td>(A51J)</td><td>(H61X)</td><td>(KV-A21</td><td>2 <b>D</b>)</td></con<>	INECTOR>				V901	<b>∆.8-738-758-05</b>	PICTURE TUBE	(A51J)	(H61X)	(KV-A21	2  <b>D</b> )
IFG13	*1-565-488-11	CONNECTOR, B	OARD TO BOAL	RD 12P			△. 8-733-231-05 △. 8-733-831-05	PICTURE TUBE PICTURE TUBE	(A59JV (A68J)	VC61X) (L61X)	(KV-A25) (KV-A29)	2(D) 2(D)
	<c01< td=""><td>L&gt;</td><td></td><td></td><td></td><td>****</td><td>**********</td><td></td><td></td><td></td><td>*******</td><td>k)<b>;</b>#=****</td></c01<>	L>				****	**********				*******	k) <b>;</b> #=****
L1 L2	1-408-410-00 1-408-410-00	INDUCTOR INDUCTOR	12UH 12UH				******	IES AND PACKIN	*****	****		
L3 L4 L5	1-410-064-11 1-408-421-00 1-408-421-00	INDUCTOR INDUCTOR	2.7MMH 100UH 100UH				3-754-894-11 *4-031-068-01	MANUAL, INSTE		DUTC	H/ITALIA	N' PORTUGUESE)
5,		NSISTOR>	100011				*4-031-069-01 *4-031-070-01	CUSHION (LOWE INDIVIDUAL CA	CR) (AS	SSY) (E	(V-A21211	<b>ó</b> ;
Q2 Q3 Q4	8-729-901-00 8-729-216-22 8-729-901-00	TRANSISTOR D	SA1162-G				*4-030-989-01 *4-030-990-01 *4-201-015-03 *4-380-340-01 *4-031-996-01	CUSHION (UPPE CUSHION (LOWE INDIVIDUAL CA BAG, PROTECTI CUSHION (UPPE	ER) (AS ARTON ( ION (KV	SSY) (1 (KV-A2! /-A212]	(V-A25211 521D) ID,A25211	); );